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DATE: Wednesday, September 22, 2004

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<input type="checkbox"/>	L7	CYCLIN	8181
<input type="checkbox"/>	L6	SV40	26490
<input type="checkbox"/>	L5	VP22	524
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Search Results - Record(s) 1 through 82 of 82 returned.

☐ 1. Document ID: US 20040151696 A1

Using default format because multiple data bases are involved.

L10: Entry 1 of 82

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040151696

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040151696 A1

TITLE: Oncolytic adenovirus

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Johnson, Leisa	Lafayette	CA	US	
Fattaey, Ali	San Francisco	CA	US	
Hermiston, Terry	Corte Madera	CA	US	
Shen, Yuqiao	Orinda	CA	US	
Laquerre, Sylvie	Conshohocken	PA	US	

US-CL-CURRENT: [424/93.2](#); [435/235.1](#), [435/456](#)

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des.
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☐ 2. Document ID: US 20040146944 A1

L10: Entry 2 of 82

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040146944

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040146944 A1

TITLE: Reverse protein delivery into cells on coded microparticles

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fang, Ye	Painted Post	NY	US	
Webb, Brian L.	Painted Post	NY	US	

US-CL-CURRENT: [435/7.2](#)

ABSTRACT:

Systems, methods and kits that utilize uniquely coded microparticles for performing protein assays are provided. The uniquely coded microparticles are used as a substrate for reverse protein delivery into cells. The microparticles and methods offer the possibility of studying the biological functions of either a single protein of interest in multiple cell types per assay or multiple proteins in a single cell type.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 3. Document ID: US 20040142900 A1

L10: Entry 3 of 82

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142900
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040142900 A1

TITLE: Uses of transport proteins

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Surrey		GB	
Normand, Nadia Michelle	Surrey		GB	
Brewis, Neil Douglas	Surrey		GB	
Phelan, Anne	Kent		GB	

US-CL-CURRENT: 514/44; 435/455

ABSTRACT:

This invention relates to uses of transport-active proteins, particularly of proteins and fusion polypeptides with the function of VP22, for control of the cell cycle, particularly in the reduction of the proliferating activity of proliferating cells.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 4. Document ID: US 20040137622 A1

L10: Entry 4 of 82

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040137622
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040137622 A1

TITLE: Modular transfection systems

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
------	------	-------	---------	---------

Schmidt, Hanns-Martin	Koln	DE
Altrogge, Ludger	Pulheim	DE
Lenz, Dietmar	Koln	DE
Riemen, Gudula	Langenfeld	DE
Brosterhus, Helmut	Kirchhunden	DE
Lorbach, Elke	Koln	DE
Helfrich, Juliana	Koln	DE
Hein, Katharina	Koln	DE
Gremse, Marion	Koln	DE
Males, Tarjana	Hilden	DE
Christine, Rainer	Koln	DE
Siebenkotten, Gregor	Freehen-Konigsdorf	DE
Ortmann, Bodo	Koln	DE
Klacs, Andrea	Koln	DE

US-CL-CURRENT: 435/455

ABSTRACT:

The present invention relates to a method for transfection of cells using at least one protein capable of forming nucleoprotein filaments, wherein the protein is initially modified with at least one functional component which influences one or more steps of the transfection, the nucleic acid to be transfected is then loaded with the modified protein, whereby the nucleic acid and the protein form a filament-like complex, and this complex is finally added to the cells to be transfected. The invention further relates to a transfection agent consisting of nucleoprotein filaments (NPF), with at least one nucleoprotein filament-forming protein being modified with at least one functional component for the transfection. Furthermore, the present invention relates to the use of the transfection agent according to the invention for producing a drug for gene therapeutic treatment of humans and animals. The present inventions also includes corresponding pharmaceutical preparations, especially for use in gene therapy as well as the use of such transfection agents as component in kits.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw. Des.
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☐ 5. Document ID: US 20040072319 A1

L10: Entry 5 of 82

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072319

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040072319 A1

TITLE: Molecules that modulate ubiquitin-dependent proteolysis and methods for identifying same

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nash, Piers	Ontario		CA	
Pawson, Anthony	Ontario		CA	

Tang, Xiaojing Ontario CA
Tyers, Michael Ontario CA

US-CL-CURRENT: 435/226; 435/320.1, 435/325

ABSTRACT:

The invention relates to methods for identifying compounds that modulate ubiquitin-dependent proteolysis, and compounds identified using the methods. The invention also relates to a novel peptide motif referred to as the "CPD motif", molecules derived from the CPD motif, and uses of the CPD motif and molecules.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 6. Document ID: US 20040038303 A1

L10: Entry 6 of 82

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038303
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040038303 A1

TITLE: Biologic modulations with nanoparticles

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Unger, Gretchen M.	Chaska	MN	US	

US-CL-CURRENT: 435/7.1; 530/350, 530/387.1, 530/396, 536/123

ABSTRACT:

Certain aspects of the invention relate to the use of small particles in biological systems, including the delivery of biologically active agents to cells or tissues using nanoparticles of less than about 200 nm in approximate diameter. Embodiments include collection of particles having a bioactive component, a surfactant molecule, a biocompatible polymer, and a cell recognition component, wherein the cell recognition component has a binding affinity for a cell recognition target. Compositions and methods of use are also set forth.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 7. Document ID: US 20040028693 A1

L10: Entry 7 of 82

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040028693
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040028693 A1

TITLE: Molecular vaccine linking intercellular spreading protein to an antigen

<http://westbrs.9000/bin/gate.exe?f=TOC&state=ofb0q.11&ref=10&dbname=PGPB,USPT,US...> 9/22/04

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wu, Tzyy Choou	Brookeville	MD	US	
Hung, Chien-Fu	Baltimore	MD	US	

US-CL-CURRENT: 424/185.1

ABSTRACT:

Superior molecular vaccines comprise nucleic acids, including naked DNA and replicon RNA, that encode a fusion polypeptide that includes an antigenic peptide or polypeptide against which an immune response is desired. Fused to the antigenic peptide is an intercellular spreading protein, in particular a herpes virus protein VP22 or a homologue or functional derivative thereof. Preferred spreading proteins are VP22 from HSV-1 and Marek's disease virus. The nucleic acid can encode any antigenic epitope of interest, preferably an epitope that is processed and presented by MHC class I proteins. Antigens of pathogenic organisms and cells such as tumor cells are preferred. Vaccines comprising HPV-16 E7 oncoprotein are exemplified. Also disclosed are methods of using the vaccines to induce heightened T cell mediated immunity, in particular by cytotoxic T lymphocytes, leading to protection from or treatment of a tumor.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des.
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☐ 8. Document ID: US 20040028607 A1

L10: Entry 8 of 82

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040028607

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040028607 A1

TITLE: Methods of modulating tubulin deacetylase activity

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Verdin, Eric M.	San Francisco	CA	US	
North, Brian J.	San Francisco	CA	US	
Ulrich, Scott M.	Ithaca	NY	US	

US-CL-CURRENT: 424/1.11; 435/19

ABSTRACT:

The present invention provides methods for identifying agents that modulate a level or an activity of tubulin deacetylase polypeptide, as well as agents identified by the methods. The invention further provides methods of modulating tubulin deacetylase activity in a cell. The invention further provides methods of modulating cellular proliferation by modulating the activity of tubulin deacetylase.

☐ 9. Document ID: US 20040023391 A1

L10: Entry 9 of 82

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023391
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040023391 A1

TITLE: Method and device for protein delivery into cells

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fang, Ye	Painted Post	NY	US	
Lai, Fang	Painted Post	NY	US	
Picard, Laurent A.G.	Corning	NY	US	
Webb, Brian L.	Painted Post	NY	US	

US-CL-CURRENT: 435/458; 435/366

ABSTRACT:

Methods for performing surface-mediated protein delivery into living cells, and fabricating protein-transfected cell cluster arrays are provided. The method comprises providing a protein-containing mixture; depositing said protein-containing mixture onto a surface at defined locations; affixing the protein-containing mixture to the surface as microspots; and plating cells onto the surface in sufficient density and under conditions for the proteins to be delivered into the cells. The protein-containing mixture comprises any suitable amino acid sequence, including peptides, proteins, protein-domains, antibodies, or protein-nucleic acid conjugates, etc., with a carrier reagent. Protein-transfected cell arrays may be used for rapid and direct, screening of protein or enzymatic functions or any given intracellular protein interaction in the natural environment of a living cell, as well as for high-throughput screening of other biological and chemical analytes, which affect the functions of these proteins.

☐ 10. Document ID: US 20040022769 A1

L10: Entry 10 of 82

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040022769
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040022769 A1

TITLE: Methods and compositions to induce antitumor response

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LaFace, Drake M.	San Diego	CA	US	

US-CL-CURRENT: 424/93.2; 435/235.1, 435/320.1, 435/456

ABSTRACT:

The present invention provides compositions which are engineered to induce killing of tumor cells and concomitantly mobilize differentiate, activate and attract dendritic cells through the expression of cytokines and dendritic cell chemoattractants. The present invention induces multiple stages of dendritic cell differentiation, activation and migration in vivo using gene therapy delivery systems. Moreover, this invention describes the rational design of utilizing viral vectors (preferred vector is rAd) for multiple administrations of targeted delivery to dendritic cells which can promote differentiation and activation of the transduced dendritic cells (thus augmenting in vivo stimulation of T cells, NK cells and B cells. The present invention provides a method to induce an antitumor immune response through the use of such compositions.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWWC	Drawn Des
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☐ 11. Document ID: US 20040002455 A1

L10: Entry 11 of 82

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002455

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002455 A1

TITLE: Targeted immunogens

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Uger, Robert Adam	Richmond Hill	CA	US	
Salha, Danielle	Toronto	NY	CA	
Barber, Brian	White Plains	NJ	US	
Morse, Clarence C.	Asbury	NJ	US	
Guo, Yong	Freshmeadows	NJ	US	
Cheng, Su	Bridgewater		US	

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The present invention provides reagents and methods for producing and utilizing targeted immunogens. In preferred embodiments, an immunogen is conjugated to an amino acid sequence that targets the immunogen to the MHC presentation pathway. Using the reagents and methods provided herein, immunization protocols may be enhanced resulting in increased immunity of the host.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWWC	Drawn Des
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☐ 12. Document ID: US 20030232781 A1

L10: Entry 12 of 82

File: PGPB

Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232781

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030232781 A1

TITLE: Modulation of gene expression using insulator binding proteins

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wolffe, Alan P.			US	
Wolffe, Elizabeth J.			US	

US-CL-CURRENT: 514/44; 424/94.61, 435/455

ABSTRACT:

Methods and compositions for regulating gene expression are provided. In particular, methods and compositions including insulator domains for targeted regulation of a gene or transgene are provided.

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw. Des.
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☐ 13. Document ID: US 20030229202 A1

L10: Entry 13 of 82

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229202 A1

TITLE: Membrane penetrating peptides and uses thereof

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guo, Yong	Fresh Meadows	NY	US	
Morse, Clarence C.	Asbury	NJ	US	
Yao, Zhengbin	Sugar Land	TX	US	
Keesler, George A.	Hillsborough	NJ	US	

US-CL-CURRENT: 530/350; 435/455

ABSTRACT:

The present invention is directed to membrane penetrating peptides useful as in viv, ex vivo and in vitro intracellular delivery devices for compound of interest. More

particularly, the invention involves identification of membrane penetrating peptides which may be used as protein carriers for delivery of a compound of interest to cells, to methods of delivering a compound of interest attached to membrane penetrating peptides to cells.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWWC	Draw. Des.
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☐ 14. Document ID: US 20030199002 A1

L10: Entry 14 of 82

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199002
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030199002 A1

TITLE: Clk-2 nucleic acids, polypeptides and uses thereof

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hekimi, Siegfried	Montreal	MD	CA	
Benard, Claire	Montreal		CA	
Jiang, Ning	Montreal		CA	
Kebir, Hania	Montreal		CA	
McCright, Brenton	Gaithersburg		US	
Lakowski, Bernard	Paris		FR	

US-CL-CURRENT: 435/7.2; 435/193, 435/320.1, 435/325, 435/69.7, 536/23.2

ABSTRACT:

The present invention relates to nucleotide sequences of clk-2 genes, particularly human clk-2, and amino acid sequences of their encoded proteins, as well as derivatives and analogs thereof. The present invention also relates to methods and compositions designed for the treatment, management, or prevention of disorders associated with abnormal expression and/or activity of clk-2 nucleic acids and/or proteins. In one embodiment, the invention encompasses a method of treating or preventing a disorder associated with decreased apoptosis (e.g., cancer, autoimmune disorders) or decreased telomere length (e.g., rapid aging or advanced age) by administering to a subject in need thereof an effective amount of an agent that promotes clk-2 activity. In another embodiment, invention encompasses a method of treating or preventing a disorder associated with increased apoptosis (e.g., neurodegenerative disorders) and increased telomere length (e.g., cancer) such as by administering to a subject in need thereof an effective amount of an agent that decreases clk-2 function. Diagnostic methods and methods for screening for therapeutically useful agents are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWWC	Draw. Des.
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☐ 15. Document ID: US 20030194727 A1

L10: Entry 15 of 82

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030194727
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030194727 A1

TITLE: Phenotypic screen of chimeric proteins

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kim, Jin-Soo	Yuseong-gu		KR	
Park, Kyung-Soon	Yuseong-gu		KR	
Lee, Dong-Ki	Yuseong-gu		KR	
Seol, Wongi	Yuseong-gu		KR	
Lee, Horim	Chungcheongnam-do		KR	
Lee, Seong-Il	Yuseong-gu		KR	
Yang, Hyo-Young	Yuseong-gu		KR	
Lee, Yangsoon	Yuseong-gu		KR	
Jang, Young-Soon	Yuseong-gu		KR	

US-CL-CURRENT: 435/6; 435/219, 435/252.3, 435/254.2, 435/320.1, 435/325, 435/69.1,
435/7.2

ABSTRACT:

In one aspect, a library of nucleic acids that encode different artificial, chimeric proteins is screened to identify a chimeric protein that alters a phenotypic trait of a cell or organism. The chimeric protein can be identified without a priori knowledge of a particular target gene or pathway. Some chimeric proteins include multiple zinc finger domains and can induce, for example, thermotolerance, solvent-tolerance, altered cellular growth, insulin production, differentiation, and drug resistance.

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMO	Draw. Des.
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☐ 16. Document ID: US 20030180777 A1

L10: Entry 16 of 82

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030180777
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030180777 A1

TITLE: Rapid identification of transcriptional regulatory domains

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartsevich, Victor	Albany	CA	US	

US-CL-CURRENT: 435/6; 435/226, 435/7.2

ABSTRACT:

<http://westbrs.9000/bin/gate.exe?f=TOC&state=ofb0q.11&ref=10&dbname=PGPB,USPT,US...> 9/22/04

Compositions and methods for high-throughput assay for transcriptional regulatory domains in mammalian cells are provided. In certain embodiments, libraries of random amino acid sequences are assayed for transcriptional regulatory activity. In additional embodiments, cDNA libraries are assayed. Libraries are fused to a DNA-binding domain that is targeted to a reporter gene, and modulation of expression of the reporter gene is assayed. Accordingly, regulatory domains having both positive and negative transcriptional regulatory activity can be identified.

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 17. Document ID: US 20030170216 A1

L10: Entry 17 of 82

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170216

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170216 A1

TITLE: SYN3 compositions and methods

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ihnat, Peter M.	Brooklyn	NY	US	
Witchey-Lakshmanan, Leonore C.	Piscataway	NJ	US	
Sandweiss, Varda	Forest Hills	NY	US	
Ugwu, Sydney O.	Chicago	IL	US	

US-CL-CURRENT: 424/93.21; 514/44

ABSTRACT:

Disclosed are aqueous and nonaqueous solution formulations containing agents that are useful for treating cancer.

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 18. Document ID: US 20030166141 A1

L10: Entry 18 of 82

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166141

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166141 A1

TITLE: Regulation of endogenous gene expression in cells using zinc finger proteins

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Case, Casey C.	San Mateo	CA	US
Cox, George N. III	Louisville	CO	US
Eisenberg, Stephen P.	Boulder	CO	US
Liu, Qiang	Foster City	CA	US
Rebar, Edward J.	El Cerrito	CA	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/366, 435/456, 702/19

ABSTRACT:

The present invention provides methods for modulating expression of endogenous cellular genes using engineered zinc finger proteins.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 19. Document ID: US 20030152945 A1

L10: Entry 19 of 82

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030152945
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030152945 A1

TITLE: Cell cycle progression proteins

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deak, Peter	Cambridge		GB	
Glover, David Moore	Sandy		GB	
Midgley, Carol	Milton Keynes		GB	

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

Polynucleotides encoding a number of Drosophila gene products are provided. Polynucleotide probes derived from these nucleotide sequences, polypeptides encoded by the polynucleotides and antibodies that bind to the polypeptides are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 20. Document ID: US 20030148973 A1

L10: Entry 20 of 82

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148973
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030148973 A1

TITLE: MAGE-A1 peptides for treating or preventing cancer

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Emtage, Peter	Boston	MA	US	
Karunakaran, Liza	Toronto	NY	CA	
Pedyczak, Arthur	Toronto		CA	
Barber, Brian H.	Hawthorne		US	

US-CL-CURRENT: 514/44; 424/185.1, 424/93.2, 536/23.1

ABSTRACT:

The present invention relates to a nucleic acid encoding a polypeptide and the use of the nucleic acid or polypeptide in preventing and/or treating cancer. In particular, the invention relates to improved vectors for the insertion and expression of foreign genes encoding tumor antigens for use in immunotherapeutic treatment of cancer.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 21. Document ID: US 20030113919 A1

L10: Entry 21 of 82

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113919

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113919 A1

TITLE: Immunogenic targets for melanoma

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Emtage, Peter	Sunnyvale	CA	US	
Karunakaran, Liza	Thornhill	NY	CA	
Pedyczak, Artur	Pickering		CA	
Barber, Brian	White Plains		US	

US-CL-CURRENT: 435/456; 435/235.1, 435/320.1

ABSTRACT:

The present invention relates to peptides, polypeptides, and nucleic acids and the use of the peptide, polypeptide or nucleic acid in preventing and/or treating cancer. In particular, the invention relates to peptides and nucleic acid sequences encoding such peptides for use in diagnosing, treating, or preventing melanoma.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 22. Document ID: US 20030108880 A1

L10: Entry 22 of 82

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108880
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030108880 A1

TITLE: Modified zinc finger binding proteins

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rebar, Edward	El Cerrito	CA	US	
Jamieson, Andrew	San Francisco	CA	US	

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

Disclosed herein are compositions and method comprising non-canonical (e.g., non-C2H2) zinc finger proteins.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Des.
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☐ 23. Document ID: US 20030099944 A1

L10: Entry 23 of 82

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030099944
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030099944 A1

TITLE: Combination therapy involving drugs which target cellular proteins and drugs which target pathogen-encoded proteins

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schaffer, Priscilla A.	Boston	MA	US	
Schang, Luis M.	Edmonton		CA	

US-CL-CURRENT: 435/6; 424/204.1, 435/5, 514/263.38, 514/263.4

ABSTRACT:

The invention relates to the identification of cdk inhibitors as inhibitors of pathogen gene expression, replication and reactivation. The invention also relates to the identification of a combination therapy to inhibit pathogen replication in which a drug that inhibits pathogen replication by targeting a specific pathogen-encoded protein is administered in combination with a drug that inhibits pathogen replication by targeting host-encoded cdk proteins. Compositions and assays for the

identification and use of such inhibitors are provided as are methods of use of the inhibitors

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 24. Document ID: US 20030087817 A1

L10: Entry 24 of 82

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087817

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087817 A1

TITLE: Regulation of endogenous gene expression in cells using zinc finger proteins

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cox, George Norbert III	Louisville	CO	US	
Case, Casey Christopher	San Mateo	CA	US	
Eisenberg, Stephen P.	Boulder	CO	US	
Jarvis, Eric Edward	Boulder	CO	US	
Spratt, Sharon Kaye	Vacaville	CA	US	

US-CL-CURRENT: 514/12; 435/455

ABSTRACT:

The present invention provides methods for modulating expression of endogenous cellular genes using recombinant zinc finger proteins.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 25. Document ID: US 20030087411 A1

L10: Entry 25 of 82

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087411

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087411 A1

TITLE: Death associated kinase containing ankyr in repeats (DAKAR) and methods of use

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge Island	WA	US	
Holland, Pamela M.	Seattle	WA	US	
Peschon, Jacques J.	Seattle	WA	US	

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

This invention relates to DAKAR, a new member of the serine/threonine kinase family, methods of making such polypeptides, and to methods of using them to treat conditions associated with apoptosis and epithelial proliferation and differentiation, as well as methods to identify compounds that alter DAKAR-associated cellular activities.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 26. Document ID: US 20030082552 A1

L10: Entry 26 of 82

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082552

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082552 A1

TITLE: Modulation of gene expression using localization domains

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wolffe, Alan P.	Richmond	CA	US	
Urnov, Fyodor	Richmond	CA	US	
Lai, Albert	Berkeley	CA	US	
Raschke, Eva	San Francisco	CA	US	
Wolffe, Elizabeth J.			US	

US-CL-CURRENT: 435/6; 435/317.1, 435/455

ABSTRACT:

Methods and compositions for regulating gene expression are provided. In particular, methods and compositions comprising localization domains, and fusions of localization domains with DNA binding domains and, optionally regulatory domains, are provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 27. Document ID: US 20030060457 A1

L10: Entry 27 of 82

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030060457

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030060457 A1

TITLE: Cellular proteins as targets for the treatment of pathogens resistant to drugs

<http://westbrs.9000/bin/gate.exe?f=TOC&state=ofb0q.11&ref=10&dbname=PGPB,USPT,US...> 9/22/04

that target pathogen-encoded proteins

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schaffer, Priscilla A.	Boston	MA	US	
Schang, Luis M.	Edmonton		CA	

US-CL-CURRENT: 514/211.08; 514/263.4, 514/285, 514/414, 514/456, 514/473, 514/518

ABSTRACT:

The invention relates to the identification of cdk inhibitors as inhibitors of gene expression, replication and reactivation in pathogenic agents. Compositions and assays for the identification and use of such inhibitors are provided, as are methods of use of the inhibitors

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draws	Des
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☐ 28. Document ID: US 20030059851 A1

L10: Entry 28 of 82

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059851

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059851 A1

TITLE: Protein quantitation with cell imaging densitometry

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Smith, Steven Jay	Bronx	NY	US	

US-CL-CURRENT: 435/7.2; 435/40.5, 435/7.23

ABSTRACT:

A method for quantitating cellular proteins in tissue, by means of a cell imaging densitometer in conjunction with immunohistological staining and a reference standard, is provided. Unlike prior art methods, which provide ordinal measures of relative amounts of protein among different cells, the method enables the quantitation of antigenic proteins in terms of absolute mass of protein/tumor or protein/patient, molecules of protein per cell, and volume or fraction of a tissue sample expressing the protein of interest. The method is useful for research purposes in the study of protein expression, and is shown to improve the accuracy of clinical histopathological analysis of tumor tissue sections for diagnosis and prognosis. The method is expected to be useful for prescribing in situ treatment dosages. The demonstrated resulting improvement in the correlation between tissue levels and blood levels of tumor-associated proteins should facilitate minimally-invasive monitoring of cancer progression and therapeutic response.

☐ 29. Document ID: US 20030054409 A1

L10: Entry 29 of 82

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054409
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030054409 A1

TITLE: Novel complex-forming proteins

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jerome, Valerie	Coelbe		DE	
Sedlacek, Hans-Harald	Marburg		DE	
Mueller, Rolf	Marburg		DE	

US-CL-CURRENT: 435/7.1; 435/183, 435/320.1, 435/325, 435/69.5, 435/69.7, 530/350, 530/351

ABSTRACT:

The invention relates to a complex of specifically complex-forming proteins which are not naturally occurring, comprising the following components: a) at least one ligand specific for a target structure, b) at least one protein comprising a mutated dimerization domain, the mutated dimerization domain having been derived by mutation of a naturally occurring dimerization domain, it being possible for this mutated dimerization domain to interact specifically with component c) and the component b) being connected covalently to the component a), c) at least one protein comprising a mutated dimerization domain, the mutated dimerization domain having been derived by mutation of a naturally occurring dimerization domain, it being possible for this mutated dimerization domain to interact specifically with component b) and the component c) is linked covalently to the component d), and d) at least one effector. In addition, the invention relates to the use and preparation of these complexes, and to nucleic acid constructs coding for the proteins mentioned and use thereof.

☐ 30. Document ID: US 20030054000 A1

L10: Entry 30 of 82

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054000
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030054000 A1

TITLE: Anti-pathogen system and methods of use thereof

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dowdy, Steven F.	Clayton	MO	US	

US-CL-CURRENT: 424/94.63; 435/226, 530/327, 530/350, 536/23.4, 536/24.33

ABSTRACT:

The present invention provides an anti-pathogen system comprising one or more fusion proteins that includes a transduction domain and a cytotoxic domain. The cytotoxic domain is specifically activated by a pathogen infection. The anti-pathogen system effectively kills or injures cells infected by one or a combination of different pathogens. Further provided are protein transduction domains that provide enhanced transduction efficiency.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Drawn Des
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☐ 31. Document ID: US 20030049649 A1

L10: Entry 31 of 82

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049649
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030049649 A1

TITLE: Targeted modification of chromatin structure

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wolffe, Alan P.	San Pablo	CA	US	
Wolffe, Elizabeth J.	Richmond	CA	US	
Collingwood, Trevor			US	
Snowden, Andrew			US	

US-CL-CURRENT: 435/6; 435/199, 435/455, 435/468

ABSTRACT:

Methods and compositions for targeted modification of chromatin structure, within a region of interest in cellular chromatin, are provided. Such methods and compositions are useful for facilitating processes such as, for example, transcription and recombination, that require access of exogenous molecules to chromosomal DNA sequences.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Drawn Des
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☐ 32. Document ID: US 20030049602 A1

L10: Entry 32 of 82

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049602

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030049602 A1

TITLE: Inhibitors of microbial gene expression replication and pathogenesis

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schaffer, Priscilla A.	Boston	MA	US	
Schang, Luis M.	Edmonton	PA	CA	
Jordan, Robert	Erdenheim		US	

US-CL-CURRENT: 435/5; 424/229.1, 435/345, 435/69.1, 435/91.1

ABSTRACT:

The invention relates to the identification of cdk inhibitors as inhibitors of microbial gene expression, replication and reactivation. Compositions and assays for the identification and use of such inhibitors are provided as are methods of use of the inhibitors

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 33. Document ID: US 20030036163 A1

L10: Entry 33 of 82

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036163
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030036163 A1

TITLE: Novel PN9826 nucleic acids and use thereof

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	
Mauck, Kimberly A.	Sandy	UT	US	

US-CL-CURRENT: 435/69.1; 435/183, 435/320.1, 435/325, 530/350, 536/23.2

ABSTRACT:

Novel PN9826 protein and nucleic acids encoding PN9826 are provided. PN9826-containing protein complexes formed by PN9826 and a PN9826-interacting protein (e.g., LTBP1) are also provided. LTBP1 and PN9826 may be involved in common biological processes such as angiogenesis, metastasis, and cell growth and adhesion. Thus, the protein complexes as well as PN9826 can be used in screening assays to select modulators of PN9826 and the protein complexes formed by PN9826 and LTBP1. The identified modulators can be useful in modulating the functions and activities of PN9826 and protein complexes containing PN9826.

☐ 34. Document ID: US 20030022330 A1

L10: Entry 34 of 82

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022330
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030022330 A1

TITLE: APOA2-interacting proteins and use thereof

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartel, Paul	Salt Lake City	UT	US	
Sugiyama, Janice	Salt Lake City	UT	US	

US-CL-CURRENT: 435/183; 435/226, 435/7.1

ABSTRACT:

Protein complexes are provided comprising APOA2 and one or more APOA2-interacting proteins. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with APOA2 and its interacting partners. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

☐ 35. Document ID: US 20030013169 A1

L10: Entry 35 of 82

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013169
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030013169 A1

TITLE: Transcription factor E2F DNA-binding domain inhibitor peptides and their use

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Muller, Rolf	Marburg		DE	
Kontermann, Roland E.	Marburg		DE	
Montigiani, Silvia	Siena		IT	

US-CL-CURRENT: 435/184; 530/330

ABSTRACT:

The present invention provides peptides which bind to the DNA binding domain of transcription factor E2F, and inhibit cell cycle progression. Peptides include FWLRFT (SEQ ID NO:1); WVRWHF (SEQ ID NO:2); WHFIFW (SEQ ID NO:3); IWLSGLSRGVVVSFP (SEQ ID NO:4); and GSRILTFRSGSWYAS (SEQ ID NO:5) and derivatives based upon these sequences. Compositions and the use of the peptides in inhibiting cell cycle progression, such as in uncontrolled cell proliferation, are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 36. Document ID: US 20030008373 A1

L10: Entry 36 of 82

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030008373

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030008373 A1

TITLE: APOA1-interacting proteins and use thereof

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartel, Paul	Salt Lake City	UT	US	
Szankasi, Philippe	Salt Lake City	UT	US	
Sugiyama, Janice	Salt Lake City	UT	US	

US-CL-CURRENT: 435/226; 435/183, 435/7.1

ABSTRACT:

Protein complexes are provided comprising APOA1 and one or more APOA1-interacting proteins. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with APOA1 and its interacting partners. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 37. Document ID: US 20030008324 A1

L10: Entry 37 of 82

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030008324

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030008324 A1

TITLE: Caspase-7-interacting protein and use thereof

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartel, Paul	Salt Lake City	UT	US	

US-CL-CURRENT: 435/7.1; 435/226, 435/320.1, 435/325, 435/69.1, 435/69.7

ABSTRACT:

Protein complexes are provided comprising Caspase-7 and a Caspase-7-interacting protein. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with Caspase-7 and the Caspase-7-interacting protein. In addition, methods for detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMOC	Draw Des
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☐ 38. Document ID: US 20020197691 A1

L10: Entry 38 of 82

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020197691
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020197691 A1

TITLE: FLT4-interacting proteins and use thereof

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sugiyama, Janice	Salt Lake City	UT	US	

US-CL-CURRENT: 435/183; 435/320.1, 435/325, 435/7.23

ABSTRACT:

Protein complexes are provided comprising FLT4 and one or more FLT4-interacting proteins. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with FLT4 and its interacting partners. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMOC	Draw Des
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☐ 39. Document ID: US 20020187143 A1

L10: Entry 39 of 82

File: PGPB

Dec 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020187143
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020187143 A1

TITLE: Methods and compositions for reducing immune response

PUBLICATION-DATE: December 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LaFace, Drake M.	San Diego	CA	US	
Rahman, Amena	San Diego	CA	US	
Shabram, Paul W.	Olivenhain	CA	US	
Tsai, Van T.	San Diego	CA	US	

US-CL-CURRENT: 424/140.1; 435/320.1, 536/23.72

ABSTRACT:

The present invention provides an apparatus and method to diminish the pre-existing immune response to the administration of a therapeutic virus by the selective elimination of antiviral antibodies from the serum. The present invention provides a chromatographic material for the elimination of such antibodies. The invention further provides plasmapheresis apparatus comprising this material. The invention further provides methods for the employment of such apparatus as part of therapeutic treatment regiments.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw. Desc
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☐ 40. Document ID: US 20020177692 A1

L10: Entry 40 of 82

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177692
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020177692 A1

TITLE: BCL-XL-interacting protein and use thereof

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartel, Paul	Salt Lake City	UT	US	

US-CL-CURRENT: 530/350; 435/184, 435/287.2, 435/320.1, 435/325, 435/69.7

ABSTRACT:

Protein complexes are provided comprising BCL-XL and TCTP. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with BCL-XL and TCTP. In addition, methods for detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting

members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMO	Draw. Des.
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☐ 41. Document ID: US 20020177207 A1

L10: Entry 41 of 82

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177207

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177207 A1

TITLE: Tsg101-interacting proteins and use thereof

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sugiyama, Janice	Salt Lake City	UT	US	
Cimbora, Daniel	Salt Lake City	UT	US	

US-CL-CURRENT: 435/196; 435/199, 435/226

ABSTRACT:

Protein complexes are provided comprising Tsg101 and one or more protein interactors of Tsg101. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with Tsg101 and its interacting partner proteins. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMO	Draw. Des.
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☐ 42. Document ID: US 20020177177 A1

L10: Entry 42 of 82

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177177

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177177 A1

TITLE: Interaction between cyclin D1 and steroid receptor co-activators and uses thereof in assays

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bernards, Rene	Alconde		NL	
Zwijzen, Renate	Utrecht		NL	

US-CL-CURRENT: 435/7.23; 514/14, 514/15, 514/16, 530/326, 530/327, 530/328

ABSTRACT:

The present invention relates to the finding that cyclin D1 interacts in a ligand-independent fashion with coactivators of the SRC-1 family. The direct interaction of cyclin D1 enhances estrogen receptor (ER) mediated transcription and provides a novel target for the development of assays for substances which modulate the cell cycle. The invention provides assay methods for the prevention of growth of tumors, for assays for compounds useful in the prevention of tumors and compounds obtainable by such assays.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des.
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☐ 43. Document ID: US 20020177152 A1

L10: Entry 43 of 82

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177152

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177152 A1

TITLE: COX 1-interacting proteins and use thereof

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	

US-CL-CURRENT: 435/6; 435/189, 435/320.1, 435/325, 435/69.1

ABSTRACT:

Protein complexes are provided comprising COX1 and one or more proteins selected from the group consisting of THR S14 and Opal. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with COX1 and its interacting partner proteins. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des.
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☐ 44. Document ID: US 20020173026 A1

L10: Entry 44 of 82

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173026

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020173026 A1

TITLE: Survivin-interacting proteins and use thereof

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	
Cimbora, Daniel	Salt Lake City	UT	US	

US-CL-CURRENT: 435/199; 435/226, 435/320.1, 435/325, 435/69.1

ABSTRACT:

Protein complexes are provided comprising survivin and one or more proteins selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with survivin and its interacting partner proteins. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Des.
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☐ 45. Document ID: US 20020165352 A1

L10: Entry 45 of 82

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020165352 A1

TITLE: Protein-protein interactions

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cimbora, Daniel M.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 530/350

ABSTRACT:

The present invention relates to the discovery of novel protein-protein interactions that are involved in mammalian physiological pathways, including physiological disorders or diseases. Examples of physiological disorders and diseases include non-insulin dependent diabetes mellitus (NIDDM), neurodegenerative disorders, such as Alzheimer's Disease (AD), and the like. Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of physiological generative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

☐ 46. Document ID: US 20020164666 A1

L10: Entry 46 of 82

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164666

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020164666 A1

TITLE: Protein-protein interactions

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cimbora, Daniel M.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 435/7.23; 435/183, 530/350, 530/388.1

ABSTRACT:

The present invention relates to the discovery of novel protein-protein interactions that are involved in mammalian physiological pathways, including physiological disorders or diseases. Examples of physiological disorders and diseases include non-insulin dependent diabetes mellitus (NIDDM), neurodegenerative disorders, such as Alzheimer's Disease (AD), and the like. Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of physiological generative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

☐ 47. Document ID: US 20020164575 A1

L10: Entry 47 of 82

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020164575 A1

TITLE: Gene identification

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47

Case, Casey C.	San Mateo	CA	US
Urnov, Fyodor	Richmond	CA	US

US-CL-CURRENT: 435/4; 435/6

ABSTRACT:

The present disclosure provides methods and compositions for identifying a particular genomic sequence as a gene and/or a coding region, once that sequence has been tentatively identified as a gene based on genomic analysis using one or more gene prediction algorithms. The methods include the use of exogenous molecules such as zinc finger proteins which are capable of binding to and modulating expression of gene transcription, targeted to putative gene sequences, followed by assay for one or more selected phenotypes.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	HWMC	Drawn Des
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☐ 48. Document ID: US 20020160940 A1

L10: Entry 48 of 82

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160940

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020160940 A1

TITLE: Modulation of endogenous gene expression in cells

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Case, Casey C.	San Mateo	CA	US	
Wolffe, Alan	Richmond	CA	US	
Urnov, Fyodor	Richmond	CA	US	
Lai, Albert	Richmond	CA	US	
Snowden, Andrew	Alameda	CA	US	
Tan, Siyuan	El Cerrito	CA	US	
Gregory, Philip			US	

US-CL-CURRENT: 514/6; 435/455

ABSTRACT:

Disclosed herein are methods and compositions for modulating expression of endogenous cellular genes using recombinant zinc finger proteins.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	HWMC	Drawn Des
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☐ 49. Document ID: US 20020155988 A1

L10: Entry 49 of 82

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155988
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020155988 A1

TITLE: Uses of transport proteins

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Surrey		GB	
Normand, Nadia Michelle	Surrey		GB	
Brewis, Neil Douglas	Surrey		GB	
Phelan, Anne	Kent		GB	

US-CL-CURRENT: 514/2; 435/7.23

ABSTRACT:

This invention relates to uses of transport-active proteins, particularly of proteins and fusion polypeptides with the function of VP22, for control of the cell cycle, particularly in the reduction of the proliferating activity of proliferating cells.

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 50. Document ID: US 20020155432 A1

L10: Entry 50 of 82

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155432
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020155432 A1

TITLE: Genetically engineered herpes virus for the treatment of cardiovascular disease

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schwartz, Lewis B.	Hinsdale	IL	US	
Weichselbaum, Ralph R.	Chicago	IL	US	
Roizman, Bernard	Chicago	IL	US	

US-CL-CURRENT: 435/5; 424/199.1, 424/205.1, 424/229.1, 435/320.1, 435/69.1

ABSTRACT:

The present invention provides methods of expressing a nucleic acid or producing a proteinaceous composition encoded by a nucleic acid in vascular and cardiovascular cells by administration of a herpesvirus vector. The present invention provides methods of producing a therapeutic benefit in vascular and cardiovascular tissue by administration of a herpesvirus vector. In additional aspects, the invention concerns combination therapies for vascular and cardiovascular diseases comprising

administration of a herpesvirus vector and treatment with at least one addition pharmacological agent or surgical procedure.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 51. Document ID: US 20020150557 A1

L10: Entry 51 of 82

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150557 A1

TITLE: Selectively replicating viral vectors

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ramachandra, Muralidhara	San Diego	CA	US	
Shabram, Paul W.	Olivenhain	CA	US	

US-CL-CURRENT: 424/93.2; 424/456, 435/320.1

ABSTRACT:

The present invention provides recombinant viruses which replicate the viral genome selectively in response to the intracellular conditions of the target cell through the use a pathway-responsive promoter which substantially inhibits viral replication in the host cell based on the phenotypic or genotypic of the infected cell. In the target cell, the promoter element of the pathway-responsive promoter is inactive and thus the virus is permitted to replicate. This results in: (1) killing the cells by natural lytic nature of the virus, and/or (2) provides a therapeutic dose of a transgene product (amplified in comparison to replication incompetent vectors) to the target cell, and (3) producing a localized concentration of the virus facilitating the infection of surrounding cells to the recombinant virus. The invention further provides therapeutic and diagnostic methods of use of the vectors, pharmaceutical formulations comprising the vectors, methods of making the vectors and transformed cells comprising the vectors.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 52. Document ID: US 20020115215 A1

L10: Entry 52 of 82

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115215

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115215 A1

TITLE: Targeted modification of chromatin structure

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wolffe, Alan P.	Orinda	CA	US	
Collingwood, Trevor	San Pablo	CA	US	

US-CL-CURRENT: 435/455; 435/468, 435/6

ABSTRACT:

Methods and compositions for targeted modification of chromatin structure, within a region of interest in cellular chromatin, are provided. Such methods and compositions are useful for facilitating processes such as, for example, transcription and recombination, that require access of exogenous molecules to chromosomal DNA sequences.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 53. Document ID: US 20020106378 A1

L10: Entry 53 of 82

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106378

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020106378 A1

TITLE: Materials and methods for intracellular transport and their uses

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Oxtd		GB	
Elliott, Gillian Daphne	Oxtd		GB	

US-CL-CURRENT: 424/186.1; 530/350

ABSTRACT:

Coupled polypeptides and fusion polypeptides for intracellular transport and their preparation and use, include (i) an aminoacid sequence with the transport function of herpesviral VP22 protein (or a homologue, e.g. from VZV, BHV or MDV) and (ii) another protein sequence selected from (a) proteins for cell cycle control; (b) suicide proteins; (c) antigenic sequences or antigenic proteins from microbial and viral antigens and tumour antigens; (d) immunomodulating proteins; and (e) therapeutic proteins. The coupled proteins can be used for intracellular delivery of protein sequences (ii), to exert the corresponding effector function in the target cell, and the fusion polypeptides can be expressed from corresponding polynucleotides, vectors and host cells.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 54. Document ID: US 20020094529 A1

PGPUB-DOCUMENT-NUMBER: 20020094529
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020094529 A1

TITLE: Gene identification

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Case, Casey C.	San Mateo	CA	US	
Urnov, Fyodor	Richmond	CA	US	

US-CL-CURRENT: 435/6; 435/4, 435/455

ABSTRACT:

The present disclosure provides methods and compositions for identifying a particular genomic sequence as a gene and/or a coding region, once that sequence has been tentatively identified as a gene based on genomic analysis using one or more gene prediction algorithms. The methods include the use of exogenous molecules such as zinc finger proteins which are capable of binding to and modulating expression of gene transcription, targeted to putative gene sequences, followed by assay for one or more selected phenotypes.

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Des
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☐ 55. Document ID: US 20020081736 A1

L10: Entry 55 of 82

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081736
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020081736 A1

TITLE: Nucleic acid delivery

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Conroy, Susan E.	London	CA	GB	
Engler, Heidrun	San Diego	CA	US	
Maneval, Daniel C.	San Diego		US	

US-CL-CURRENT: 435/455; 514/44, 514/53, 514/58

ABSTRACT:

The present invention provides formulations and methods to enhance the delivery of nucleic acids to cells. Formulations comprising dextrin polymers in combination with sugars provide enhanced delivery of nucleic acids, particularly eucaryotic expression

vectors, demonstrate enhanced delivery of nucleic acids to cells in vivo. The present invention also provides methods of treatment in combination with such formulations.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. Des.
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☐ 56. Document ID: US 20020081614 A1

L10: Entry 56 of 82

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081614

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020081614 A1

TITLE: Functional genomics using zinc finger proteins

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Case, Casey C.	San Mateo	CA	US	
Zhang, Lei	San Francisco	CA	US	

US-CL-CURRENT: 435/6; 435/7.21, 702/19

ABSTRACT:

0 The present invention provides methods of regulating gene expression using recombinant zinc finger proteins, for functional genomics and target validation applications.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. Des.
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☐ 57. Document ID: US 20020072119 A1

L10: Entry 57 of 82

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072119

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072119 A1

TITLE: Herpes simplex virus for treating unwanted hyperproliferative cell growth

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Laquerre, Sylvie	Walnut Creek	CA	US	
Hermiston, Terry	Corte Madera	CA	US	

US-CL-CURRENT: 435/456; 424/93.6, 435/235.1

ABSTRACT:

The present invention relates to pharmaceutical compositions, kits, and methods of use thereof, comprising, a mutant human herpes simplex-type 1 virus, which is cytopathic to susceptible hyperproliferative cells, such as neoplastic cells. Preferably, the virus does not produce a fully functionally active wild-type ICP0 polypeptide coded for the IE gene 1.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw. Des.
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☐ 58. Document ID: US 20020068706 A1

L10: Entry 58 of 82

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020068706 A1

TITLE: INHIBITORS OF CELL-CYCLE PROGRESSION AND USES RELATED THERETO

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
GYURIS, JENO	WINCHESTER	MA	US	
LAMPHERE, LOU	BOSTON	MA	US	
BEACH, DAVID H.	HUNTINGTON BAY	NY	US	

US-CL-CURRENT: 514/44; 435/455, 536/23.4, 536/23.72, 536/24.1

ABSTRACT:

The present invention pertains to novel inhibitors of cyclin-dependent kinases (CDKs), particularly CDK/cyclin complexes, which inhibitors can be used to control proliferation and/or differentiation of cells in which the inhibitors are introduced.

Full	Title	Cita	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw. Des.
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☐ 59. Document ID: US 20020037280 A1

L10: Entry 59 of 82

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020037280 A1

TITLE: Recombinant, modified adenoviral vectors for tumor specific gene expression and uses thereof

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lieber, Andre	Seattle	WA	US	

Steinwaerder, Dirk S.	Hamburg	WA	DE
Carlson, Cheryl A.	Seattle	WA	US
Mi, Jie	Seattle		US

US-CL-CURRENT: 424/93.21; 435/235.1, 435/320.1, 435/456

ABSTRACT:

This invention provides modified recombinant Ad vectors (e.g., AdE1- vectors) undergoing defined homologous recombination in order to create predictably rearranged genomic derivatives in a host cell. Genomic rearrangements can be achieved, for example, by incorporating two IR sequences within one vector genome and enabling genomic rearrangement by coinfection with two parental vectors of one type (also referred to herein as a one vector system) or by homologous recombination of overlapping regions in two distinct types of parental vectors (with or without IR sequences) and enabling genomic rearrangement only upon coinfection of the host cell with the two distinct parental vectors (also referred to herein as two vector system).

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw. Des.
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☐ 60. Document ID: US 6780590 B2

L10: Entry 60 of 82

File: USPT

Aug 24, 2004

US-PAT-NO: 6780590

DOCUMENT-IDENTIFIER: US 6780590 B2

TITLE: Gene identification

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Case; Casey C.	San Mateo	CA		
Urnov; Fyodor	Richmond	CA		

US-CL-CURRENT: 435/6

ABSTRACT:

The present disclosure provides methods and compositions for identifying a particular genomic sequence as a gene and/or a coding region, once that sequence has been tentatively identified as a gene based on genomic analysis using one or more gene prediction algorithms. The methods include the use of exogenous molecules such as zinc finger proteins which are capable of binding to and modulating expression of gene transcription, targeted to putative gene sequences, followed by assay for one or more selected phenotypes.

30 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Cite	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw. Des.
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☐ 61. Document ID: US 6777185 B2

L10: Entry 61 of 82

File: USPT

Aug 17, 2004

US-PAT-NO: 6777185

DOCUMENT-IDENTIFIER: US 6777185 B2

TITLE: Functional genomics using zinc finger proteins

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Case; Casey C.	San Mateo	CA		
Zhang; Lei	Davis	CA		
Urnov; Fyodor	Richmond	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/69.1, 536/23.1, 536/23.4

ABSTRACT:

The present invention provides methods of regulating gene expression using recombinant zinc finger proteins, for functional genomics and target validation applications.

53 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Cite	Front	Review	Classification	Date	Reference	Ex. 1	Ex. 2	Ex. 3	Ex. 4	Ex. 5	Ex. 6	Ex. 7	Ex. 8	Ex. 9	Ex. 10	Ex. 11	Ex. 12	Ex. 13	Ex. 14	Ex. 15	Ex. 16	Ex. 17	Ex. 18	Ex. 19	Ex. 20	Ex. 21	Ex. 22	Ex. 23	Ex. 24	Ex. 25	Ex. 26	Ex. 27	Ex. 28	Ex. 29	Ex. 30	Ex. 31	Ex. 32	Ex. 33	Ex. 34	Ex. 35	Ex. 36	Ex. 37	Ex. 38	Ex. 39	Ex. 40	Ex. 41	Ex. 42	Ex. 43	Ex. 44	Ex. 45	Ex. 46	Ex. 47	Ex. 48	Ex. 49	Ex. 50	Ex. 51	Ex. 52	Ex. 53	Ex. 54	Ex. 55	Ex. 56	Ex. 57	Ex. 58	Ex. 59	Ex. 60	Ex. 61	Ex. 62	Ex. 63	Ex. 64	Ex. 65	Ex. 66	Ex. 67	Ex. 68	Ex. 69	Ex. 70	Ex. 71	Ex. 72	Ex. 73	Ex. 74	Ex. 75	Ex. 76	Ex. 77	Ex. 78	Ex. 79	Ex. 80	Ex. 81	Ex. 82	Ex. 83	Ex. 84	Ex. 85	Ex. 86	Ex. 87	Ex. 88	Ex. 89	Ex. 90	Ex. 91	Ex. 92	Ex. 93	Ex. 94	Ex. 95	Ex. 96	Ex. 97	Ex. 98	Ex. 99	Ex. 100	Ex. 101	Ex. 102	Ex. 103	Ex. 104	Ex. 105	Ex. 106	Ex. 107	Ex. 108	Ex. 109	Ex. 110	Ex. 111	Ex. 112	Ex. 113	Ex. 114	Ex. 115	Ex. 116	Ex. 117	Ex. 118	Ex. 119	Ex. 120	Ex. 121	Ex. 122	Ex. 123	Ex. 124	Ex. 125	Ex. 126	Ex. 127	Ex. 128	Ex. 129	Ex. 130	Ex. 131	Ex. 132	Ex. 133	Ex. 134	Ex. 135	Ex. 136	Ex. 137	Ex. 138	Ex. 139	Ex. 140	Ex. 141	Ex. 142	Ex. 143	Ex. 144	Ex. 145	Ex. 146	Ex. 147	Ex. 148	Ex. 149	Ex. 150	Ex. 151	Ex. 152	Ex. 153	Ex. 154	Ex. 155	Ex. 156	Ex. 157	Ex. 158	Ex. 159	Ex. 160	Ex. 161	Ex. 162	Ex. 163	Ex. 164	Ex. 165	Ex. 166	Ex. 167	Ex. 168	Ex. 169	Ex. 170	Ex. 171	Ex. 172	Ex. 173	Ex. 174	Ex. 175	Ex. 176	Ex. 177	Ex. 178	Ex. 179	Ex. 180	Ex. 181	Ex. 182	Ex. 183	Ex. 184	Ex. 185	Ex. 186	Ex. 187	Ex. 188	Ex. 189	Ex. 190	Ex. 191	Ex. 192	Ex. 193	Ex. 194	Ex. 195	Ex. 196	Ex. 197	Ex. 198	Ex. 199	Ex. 200	Ex. 201	Ex. 202	Ex. 203	Ex. 204	Ex. 205	Ex. 206	Ex. 207	Ex. 208	Ex. 209	Ex. 210	Ex. 211	Ex. 212	Ex. 213	Ex. 214	Ex. 215	Ex. 216	Ex. 217	Ex. 218	Ex. 219	Ex. 220	Ex. 221	Ex. 222	Ex. 223	Ex. 224	Ex. 225	Ex. 226	Ex. 227	Ex. 228	Ex. 229	Ex. 230	Ex. 231	Ex. 232	Ex. 233	Ex. 234	Ex. 235	Ex. 236	Ex. 237	Ex. 238	Ex. 239	Ex. 240	Ex. 241	Ex. 242	Ex. 243	Ex. 244	Ex. 245	Ex. 246	Ex. 247	Ex. 248	Ex. 249	Ex. 250	Ex. 251	Ex. 252	Ex. 253	Ex. 254	Ex. 255	Ex. 256	Ex. 257	Ex. 258	Ex. 259	Ex. 260	Ex. 261	Ex. 262	Ex. 263	Ex. 264	Ex. 265	Ex. 266	Ex. 267	Ex. 268	Ex. 269	Ex. 270	Ex. 271	Ex. 272	Ex. 273	Ex. 274	Ex. 275	Ex. 276	Ex. 277	Ex. 278	Ex. 279	Ex. 280	Ex. 281	Ex. 282	Ex. 283	Ex. 284	Ex. 285	Ex. 286	Ex. 287	Ex. 288	Ex. 289	Ex. 290	Ex. 291	Ex. 292	Ex. 293	Ex. 294	Ex. 295	Ex. 296	Ex. 297	Ex. 298	Ex. 299	Ex. 300	Ex. 301	Ex. 302	Ex. 303	Ex. 304	Ex. 305	Ex. 306	Ex. 307	Ex. 308	Ex. 309	Ex. 310	Ex. 311	Ex. 312	Ex. 313	Ex. 314	Ex. 315	Ex. 316	Ex. 317	Ex. 318	Ex. 319	Ex. 320	Ex. 321	Ex. 322	Ex. 323	Ex. 324	Ex. 325	Ex. 326	Ex. 327	Ex. 328	Ex. 329	Ex. 330	Ex. 331	Ex. 332	Ex. 333	Ex. 334	Ex. 335	Ex. 336	Ex. 337	Ex. 338	Ex. 339	Ex. 340	Ex. 341	Ex. 342	Ex. 343	Ex. 344	Ex. 345	Ex. 346	Ex. 347	Ex. 348	Ex. 349	Ex. 350	Ex. 351	Ex. 352	Ex. 353	Ex. 354	Ex. 355	Ex. 356	Ex. 357	Ex. 358	Ex. 359	Ex. 360	Ex. 361	Ex. 362	Ex. 363	Ex. 364	Ex. 365	Ex. 366	Ex. 367	Ex. 368	Ex. 369	Ex. 370	Ex. 371	Ex. 372	Ex. 373	Ex. 374	Ex. 375	Ex. 376	Ex. 377	Ex. 378	Ex. 379	Ex. 380	Ex. 381	Ex. 382	Ex. 383	Ex. 384	Ex. 385	Ex. 386	Ex. 387	Ex. 388	Ex. 389	Ex. 390	Ex. 391	Ex. 392	Ex. 393	Ex. 394	Ex. 395	Ex. 396	Ex. 397	Ex. 398	Ex. 399	Ex. 400	Ex. 401	Ex. 402	Ex. 403	Ex. 404	Ex. 405	Ex. 406	Ex. 407	Ex. 408	Ex. 409	Ex. 410	Ex. 411	Ex. 412	Ex. 413	Ex. 414	Ex. 415	Ex. 416	Ex. 417	Ex. 418	Ex. 419	Ex. 420	Ex. 421	Ex. 422	Ex. 423	Ex. 424	Ex. 425	Ex. 426	Ex. 427	Ex. 428	Ex. 429	Ex. 430	Ex. 431	Ex. 432	Ex. 433	Ex. 434	Ex. 435	Ex. 436	Ex. 437	Ex. 438	Ex. 439	Ex. 440	Ex. 441	Ex. 442	Ex. 443	Ex. 444	Ex. 445	Ex. 446	Ex. 447	Ex. 448	Ex. 449	Ex. 450	Ex. 451	Ex. 452	Ex. 453	Ex. 454	Ex. 455	Ex. 456	Ex. 457	Ex. 458	Ex. 459	Ex. 460	Ex. 461	Ex. 462	Ex. 463	Ex. 464	Ex. 465	Ex. 466	Ex. 467	Ex. 468	Ex. 469	Ex. 470	Ex. 471	Ex. 472	Ex. 473	Ex. 474	Ex. 475	Ex. 476	Ex. 477	Ex. 478	Ex. 479	Ex. 480	Ex. 481	Ex. 482	Ex. 483	Ex. 484	Ex. 485	Ex. 486	Ex. 487	Ex. 488	Ex. 489	Ex. 490	Ex. 491	Ex. 492	Ex. 493	Ex. 494	Ex. 495	Ex. 496	Ex. 497	Ex. 498	Ex. 499	Ex. 500	Ex. 501	Ex. 502	Ex. 503	Ex. 504	Ex. 505	Ex. 506	Ex. 507	Ex. 508	Ex. 509	Ex. 510	Ex. 511	Ex. 512	Ex. 513	Ex. 514	Ex. 515	Ex. 516	Ex. 517	Ex. 518	Ex. 519	Ex. 520	Ex. 521	Ex. 522	Ex. 523	Ex. 524	Ex. 525	Ex. 526	Ex. 527	Ex. 528	Ex. 529	Ex. 530	Ex. 531	Ex. 532	Ex. 533	Ex. 534	Ex. 535	Ex. 536	Ex. 537	Ex. 538	Ex. 539	Ex. 540	Ex. 541	Ex. 542	Ex. 543	Ex. 544	Ex. 545	Ex. 546	Ex. 547	Ex. 548	Ex. 549	Ex. 550	Ex. 551	Ex. 552	Ex. 553	Ex. 554	Ex. 555	Ex. 556	Ex. 557	Ex. 558	Ex. 559	Ex. 560	Ex. 561	Ex. 562	Ex. 563	Ex. 564	Ex. 565	Ex. 566	Ex. 567	Ex. 568	Ex. 569	Ex. 570	Ex. 571	Ex. 572	Ex. 573	Ex. 574	Ex. 575	Ex. 576	Ex. 577	Ex. 578	Ex. 579	Ex. 580	Ex. 581	Ex. 582	Ex. 583	Ex. 584	Ex. 585	Ex. 586	Ex. 587	Ex. 588	Ex. 589	Ex. 590	Ex. 591	Ex. 592	Ex. 593	Ex. 594	Ex. 595	Ex. 596	Ex. 597	Ex. 598	Ex. 599	Ex. 600	Ex. 601	Ex. 602	Ex. 603	Ex. 604	Ex. 605	Ex. 606	Ex. 607	Ex. 608	Ex. 609	Ex. 610	Ex. 611	Ex. 612	Ex. 613	Ex. 614	Ex. 615	Ex. 616	Ex. 617	Ex. 618	Ex. 619	Ex. 620	Ex. 621	Ex. 622	Ex. 623	Ex. 624	Ex. 625	Ex. 626	Ex. 627	Ex. 628	Ex. 629	Ex. 630	Ex. 631	Ex. 632	Ex. 633	Ex. 634	Ex. 635	Ex. 636	Ex. 637	Ex. 638	Ex. 639	Ex. 640	Ex. 641	Ex. 642	Ex. 643	Ex. 644	Ex. 645	Ex. 646	Ex. 647	Ex. 648	Ex. 649	Ex. 650	Ex. 651	Ex. 652	Ex. 653	Ex. 654	Ex. 655	Ex. 656	Ex. 657	Ex. 658	Ex. 659	Ex. 660	Ex. 661	Ex. 662	Ex. 663	Ex. 664	Ex. 665	Ex. 666	Ex. 667	Ex. 668	Ex. 669	Ex. 670	Ex. 671	Ex. 672	Ex. 673	Ex. 674	Ex. 675	Ex. 676	Ex. 677	Ex. 678	Ex. 679	Ex. 680	Ex. 681	Ex. 682	Ex. 683	Ex. 684	Ex. 685	Ex. 686	Ex. 687	Ex. 688	Ex. 689	Ex. 690	Ex. 691	Ex. 692	Ex. 693	Ex. 694	Ex. 695	Ex. 696	Ex. 697	Ex. 698	Ex. 699	Ex. 700	Ex. 701	Ex. 702	Ex. 703	Ex. 704	Ex. 705	Ex. 706	Ex. 707	Ex. 708	Ex. 709	Ex. 710	Ex. 711	Ex. 712	Ex. 713	Ex. 714	Ex. 715	Ex. 716	Ex. 717	Ex. 718	Ex. 719	Ex. 720	Ex. 721	Ex. 722	Ex. 723	Ex. 724	Ex. 725	Ex. 726	Ex. 727	Ex. 728	Ex. 729	Ex. 730	Ex. 731	Ex. 732	Ex. 733	Ex. 734	Ex. 735	Ex. 736	Ex. 737	Ex. 738	Ex. 739	Ex. 740	Ex. 741	Ex. 742	Ex. 743	Ex. 744	Ex. 745	Ex. 746	Ex. 747	Ex. 748	Ex. 749	Ex. 750	Ex. 751	Ex. 752	Ex. 753	Ex. 754	Ex. 755	Ex. 756	Ex. 757	Ex. 758	Ex. 759	Ex. 760	Ex. 761	Ex. 762	Ex. 763	Ex. 764	Ex. 765	Ex. 766	Ex. 767	Ex. 768	Ex. 769	Ex. 770	Ex. 771	Ex. 772	Ex. 773	Ex. 774	Ex. 775	Ex. 776	Ex. 777	Ex. 778	Ex. 779	Ex. 780	Ex. 781	Ex. 782	Ex. 783	Ex. 784	Ex. 785	Ex. 786	Ex. 787	Ex. 788	Ex. 789	Ex. 790	Ex. 791	Ex. 792	Ex. 793	Ex. 794	Ex. 795	Ex. 796	Ex. 797	Ex. 798	Ex. 799	Ex. 800	Ex. 801	Ex. 802	Ex. 803	Ex. 804	Ex. 805	Ex. 806	Ex. 807	Ex. 808	Ex. 809	Ex. 810	Ex. 811	Ex. 812	Ex. 813	Ex. 814	Ex. 815	Ex. 816	Ex. 817	Ex. 818	Ex. 819	Ex. 820	Ex. 821	Ex. 822	Ex. 823	Ex. 824	Ex. 825	Ex. 826	Ex. 827	Ex. 828	Ex. 829	Ex. 830	Ex. 831	Ex. 832	Ex. 833	Ex. 834	Ex. 835	Ex. 836	Ex. 837	Ex. 838	Ex. 839	Ex. 840	Ex. 841	Ex. 842	Ex. 843	Ex. 844	Ex. 845	Ex. 846	Ex. 847	Ex. 848	Ex. 849	Ex. 850	Ex. 851	Ex. 852	Ex. 853	Ex. 854	Ex. 855	Ex. 856	Ex. 857	Ex. 858	Ex. 859	Ex. 860	Ex. 861	Ex. 862	Ex. 863	Ex. 864	Ex. 865	Ex. 866	Ex. 867	Ex. 868	Ex. 869	Ex. 870	Ex. 871	Ex. 872	Ex. 873	Ex. 874	Ex. 875	Ex. 876	Ex. 877	Ex. 878	Ex. 879	Ex. 880	Ex. 881	Ex. 882	Ex. 883	Ex. 884	Ex. 885	Ex. 886	Ex. 887	Ex. 888	Ex. 889	Ex. 890	Ex. 891	Ex. 892	Ex. 893	Ex. 894	Ex. 895	Ex. 896	Ex. 897	Ex. 898	Ex. 899	Ex. 900	Ex. 901	Ex. 902	Ex. 903	Ex. 904	Ex. 905	Ex. 906	Ex. 907	Ex. 908	Ex. 909	Ex. 910	Ex. 911	Ex. 912	Ex. 913	Ex. 914	Ex. 915	Ex. 916	Ex. 917	Ex. 918	Ex. 919	Ex. 920	Ex. 921	Ex. 922	Ex. 923	Ex. 924	Ex. 925	Ex. 926	Ex. 927	Ex. 928	Ex. 929	Ex. 930	Ex. 931	Ex. 932	Ex. 933	Ex. 934	Ex. 935	Ex. 936	Ex. 937	Ex. 938	Ex. 939	Ex. 940	Ex. 941	Ex. 942	Ex. 943	Ex. 944	Ex. 945	Ex. 946	Ex. 947	Ex. 948	Ex. 949	Ex. 950	Ex. 951	Ex. 952	Ex. 953	Ex. 954	Ex. 955	Ex. 956	Ex. 957	Ex. 958	Ex. 959	Ex. 960	Ex. 961	Ex. 962	Ex. 963	Ex. 964	Ex. 965	Ex. 966	Ex. 967	Ex. 968	Ex. 969	Ex. 970	Ex. 971	Ex. 972	Ex. 973	Ex. 974	Ex. 975	Ex. 976	Ex. 977	Ex. 978	Ex. 979	Ex. 980	Ex. 981	Ex. 982	Ex. 983	Ex. 984	Ex. 985	Ex. 986	Ex. 987	Ex. 988	Ex. 989	Ex. 990	Ex. 991	Ex. 992	Ex. 993	Ex. 994	Ex. 995	Ex. 996	Ex. 997	Ex. 998	Ex. 999	Ex. 1000	Ex. 1001	Ex. 1002	Ex. 1003	Ex. 1004	Ex. 1005	Ex. 1006	Ex. 1007	Ex. 1008	Ex. 1009	Ex. 1010	Ex. 1011	Ex. 1012	Ex. 1013	Ex. 1014	Ex. 1015	Ex. 1016	Ex. 1017	Ex. 1018	Ex. 1019	Ex. 1020	Ex. 1021	Ex. 1022	Ex. 1023	Ex. 1024	Ex. 1025	Ex. 1026	Ex. 1027	Ex. 1028	Ex. 1029	Ex. 1030	Ex. 1031	Ex. 1032	Ex. 1033	Ex. 1034	Ex. 1035	Ex. 1036	Ex. 1037	Ex. 1038	Ex. 1039	Ex. 1040	Ex. 1041	Ex. 1042	Ex. 1043
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relative amounts of protein among different cells, the method enables the quantitation of antigenic proteins in terms of absolute mass of protein/tumor or protein/patient, molecules of protein per cell, and volume or fraction of a tissue sample expressing the protein of interest. The method is useful for research purposes in the study of protein expression, and is shown to improve the accuracy of clinical histopathological analysis of tumor tissue sections for diagnosis and prognosis. The method is expected to be useful for prescribing in situ treatment dosages. The demonstrated resulting improvement in the correlation between tissue levels and blood levels of tumor-associated proteins should facilitate minimally-invasive monitoring of cancer progression and therapeutic response.

21 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 17

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Des
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☐ 63. Document ID: US 6734167 B2

L10: Entry 63 of 82

File: USPT

May 11, 2004

US-PAT-NO: 6734167

DOCUMENT-IDENTIFIER: US 6734167 B2

TITLE: Uses of transport proteins

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Surry			GB
Normand; Nadia Michelle	Boulogne-Billancourt			FR
Brewis; Neil Douglas	Surry			GB
Phelan; Anne	Kent			GB

US-CL-CURRENT: 514/12; 424/204.1, 424/231.1, 530/350, 536/23.1, 536/23.5

ABSTRACT:

This invention relates to uses of transport-active proteins, particularly of proteins and fusion polypeptides with the function of VP22, for control of the cell cycle, particularly in the reduction of the proliferating activity of proliferating cells.

11 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Des
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☐ 64. Document ID: US 6686196 B2

L10: Entry 64 of 82

File: USPT

Feb 3, 2004

US-PAT-NO: 6686196

DOCUMENT-IDENTIFIER: US 6686196 B2

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.11&ref=10&dbname=PGPB,USPT,US...> 9/22/04

TITLE: Recombinant, modified adenoviral vectors for tumor specific gene expression and uses thereof

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lieber; Andre	Seattle	WA		
Steinwaerder; Dirk S.	Hamburg			DE
Carlson; Cheryl A.	Seattle	WA		
Mi; Jie	Seattle	WA		

US-CL-CURRENT: 435/320.1; 424/93.2, 435/455, 435/456

ABSTRACT:

This invention provides modified recombinant Ad vectors (e.g., AdE1- vectors) undergoing defined homologous recombination in order to create predictably rearranged genomic derivatives in a host cell. Genomic rearrangements can be achieved, for example, by incorporating two IR sequences within one vector genome and enabling genomic rearrangement by coinfection with two parental vectors of one type (also referred to herein as a one vector system) or by homologous recombination of overlapping regions in two distinct types of parental vectors (with or without IR sequences) and enabling genomic rearrangement only upon coinfection of the host cell with the two distinct parental vectors (also referred to herein as two vector system).

26 Claims, 32 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 27

Full	Title	Cite	Front	Review	Classification	Date	Reference			Claims	EMC	Draw. Des.
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☐ 65. Document ID: US 6660259 B2

L10: Entry 65 of 82

File: USPT

Dec 9, 2003

US-PAT-NO: 6660259

DOCUMENT-IDENTIFIER: US 6660259 B2

TITLE: Herpes simplex virus for treating unwanted hyperproliferative cell growth

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laquerre; Sylvie	Walnut Creek	CA		
Hermiston; Terry	Corte Madera	CA		

US-CL-CURRENT: 424/93.2; 435/320.1, 435/325, 435/69.1, 435/91.41

ABSTRACT:

The present invention relates to pharmaceutical compositions, kits, and methods of use thereof, comprising, a mutant human herpes simplex-type 1 virus, which is

cytopathic to susceptible hyperproliferative cells, such as neoplastic cells.
Preferably, the virus does not produce a fully functionally active wild-type ICP0 polypeptide coded for the IE gene 1.

15 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Cita	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 66. Document ID: US 6649158 B1

L10: Entry 66 of 82

File: USPT

Nov 18, 2003

US-PAT-NO: 6649158
DOCUMENT-IDENTIFIER: US 6649158 B1

TITLE: Methods and compositions to induce antitumor response

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LaFace; Drake M.	San Diego	CA		

US-CL-CURRENT: 424/93.2; 435/320.1, 435/325, 435/69.1, 435/83

ABSTRACT:

The present invention provides compositions which are engineered to induce killing of tumor cells and concomitantly mobilize differentiate, activate and attract dendritic cells through the expression of cytokines and dendritic cell chemoattractants. The present invention induces multiple stages of dendritic cell differentiation, activation and migration in vivo using gene therapy delivery systems. Moreover, this invention describes the rational design of utilizing viral vectors (preferred vector is rAd) for multiple administrations of targeted delivery to dendritic cells which can promote differentiation and activation of the transduced dendritic cells (thus augmenting in vivo stimulation of T cells, NK cells and B cells. The present invention provides a method to induce an antitumor immune response through the use of such compositions.

5 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Cita	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 67. Document ID: US 6645501 B2

L10: Entry 67 of 82

File: USPT

Nov 11, 2003

US-PAT-NO: 6645501
DOCUMENT-IDENTIFIER: US 6645501 B2

TITLE: Anti-pathogen system and methods of use thereof

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowdy; Steven F.	Clayton	MO		

US-CL-CURRENT: 424/192.1; 424/195.11, 424/196.11

ABSTRACT:

The present invention provides an anti-pathogen system comprising one or more fusion proteins that includes a transduction domain and a cytotoxic domain. The cytotoxic domain is specifically activated by a pathogen infection. The anti-pathogen system effectively kills or injures cells infected by one or a combination of different pathogens. Further provided are protein transduction domains that provide enhanced transduction efficiency.

27 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full	Title	Cite	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw. Des.
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☐ 68. Document ID: US 6635476 B1

L10: Entry 68 of 82

File: USPT

Oct 21, 2003

US-PAT-NO: 6635476

DOCUMENT-IDENTIFIER: US 6635476 B1

TITLE: Targeted vectors

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Richard B.	San Diego	CA		

US-CL-CURRENT: 435/320.1; 424/199.1, 424/93.1, 424/93.2, 435/235.1

ABSTRACT:

This invention provides therapeutic and diagnostic agent delivery vehicles, including viral vectors, that are complexed to a targeting moiety by coordinate covalent linkages mediated by a transition metal ion. The complex is typically formed with a transition metal ion that is in a kinetically labile oxidation state; after the complex is formed, the oxidation state of the transition metal ion is changed to one that renders the complex kinetically stable. The use of a coordinate covalent linkage to attach the targeting moiety to the delivery vehicle provides the ability to readily attach a different targeting moiety to a delivery vehicle without modifying the delivery vehicle itself. This flexibility is achieved without sacrificing stability of the complex.

26 Claims, 2 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Des
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☐ 69. Document ID: US 6607882 B1

L10: Entry 69 of 82

File: USPT

Aug 19, 2003

US-PAT-NO: 6607882

DOCUMENT-IDENTIFIER: US 6607882 B1

TITLE: Regulation of endogenous gene expression in cells using zinc finger proteins

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cox, III; George N.	Louisville	CO		
Case; Casey C.	San Mateo	CA		
Eisenberg; Stephen P.	Boulder	CO		
Jarvis; Eric E.	Boulder	CO		
Spratt; Sharon K.	Vacaville	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/455, 435/468, 536/23.1, 536/23.4, 536/24.1

ABSTRACT:

The present invention provides methods for modulating expression of endogenous cellular genes using recombinant zinc finger proteins.

32 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw Des
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☐ 70. Document ID: US 6599692 B1

L10: Entry 70 of 82

File: USPT

Jul 29, 2003

US-PAT-NO: 6599692

DOCUMENT-IDENTIFIER: US 6599692 B1

TITLE: Functional genomics using zinc finger proteins

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Case; Casey C.	San Mateo	CA		
Zhang; Lei	San Francisco	CA		

US-CL-CURRENT: 435/4; 435/6, 536/23.1

ABSTRACT:

The present invention provides methods of regulating gene expression using recombinant zinc finger proteins, for functional genomics and target validation applications.

55 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. Des.
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☐ 71. Document ID: US 6534261 B1

L10: Entry 71 of 82

File: USPT

Mar 18, 2003

US-PAT-NO: 6534261

DOCUMENT-IDENTIFIER: US 6534261 B1

TITLE: Regulation of endogenous gene expression in cells using zinc finger proteins

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cox, III; George Norbert	Louisville	CO		
Case; Casey Christopher	San Mateo	CA		
Eisenberg; Stephen P.	Boulder	CO		
Jarvis; Eric Edward	Boulder	CO		
Spratt; Sharon Kaye	Vacaville	CA		

US-CL-CURRENT: 435/6; 435/29, 536/23.5, 536/24.1

ABSTRACT:

The present invention provides methods for modulating expression of endogenous cellular genes using recombinant zinc finger proteins.

85 Claims, 14 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. Des.
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☐ 72. Document ID: US 6495526 B2

L10: Entry 72 of 82

File: USPT

Dec 17, 2002

US-PAT-NO: 6495526

DOCUMENT-IDENTIFIER: US 6495526 B2

TITLE: Inhibitors of cell-cycle progression and uses related thereto

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gyuris; Jeno	Winchester	MA		
Lamphere; Lou	Boston	MA		
Beach; David H.	Huntington Bay	NY		

US-CL-CURRENT: 514/44; 536/23.4, 536/23.72, 536/24.1

ABSTRACT:

The present invention pertains to novel inhibitors of cyclin-dependent kinases (CDKs), particularly CDK/cyclin complexes, which inhibitors can be used to control proliferation and/or differentiation of cells in which the inhibitors are introduced.

42 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Cita	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw. Des.
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☐ 73. Document ID: US 6495346 B1

L10: Entry 73 of 82.

File: USPT

Dec 17, 2002

US-PAT-NO: 6495346

DOCUMENT-IDENTIFIER: US 6495346 B1

TITLE: Complex-forming proteins

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jerome; Valerie	Colbe			DE
Sedlacek; Hans-Harald	Marburg			DE
Muller; Rolf	Marburg			DE

US-CL-CURRENT: 435/69.7; 424/85.1, 424/85.2, 435/69.5, 435/69.52, 530/351, 536/23.4, 536/23.5, 536/23.51

ABSTRACT:

The invention relates to a complex of specifically complex-forming proteins which are not naturally occurring, comprising the following components: a) at least one ligand specific for a target structure, b) at least one protein comprising a mutated dimerization domain, the mutated dimerization domain having been derived by mutation of a naturally occurring dimerization domain, it being possible for this mutated dimerization domain to interact specifically with component c) and the component b) being connected covalently to the component a), c) at least one protein comprising a mutated dimerization domain, the mutated dimerization domain having been derived by mutation of a naturally occurring dimerization domain, it being possible for this mutated dimerization domain to interact specifically with component b) and the

component c) is linked covalently to the component d), and d) at least one effector. In addition, the invention relates to the use and preparation of these complexes, and to nucleic acid constructs coding for the proteins mentioned and use thereof.

12 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Cita	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw Des
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☐ 74. Document ID: US 6485977 B1

L10: Entry 74 of 82

File: USPT

Nov 26, 2002

US-PAT-NO: 6485977

DOCUMENT-IDENTIFIER: US 6485977 B1

TITLE: Recombinant constructs and techniques for delivering to eucaryotic cells bacterial proteins that are secreted via type III secretion systems

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collmer; Alan	Ithaca	NY		
Beer; Steven V.	Ithaca	NY		

US-CL-CURRENT: 435/455; 435/320.1, 435/325, 435/456, 435/69.1, 435/69.7, 536/23.1, 536/23.4, 536/24.1

ABSTRACT:

The present invention relates to a method for delivering effector proteins into a target cell. This method involves introducing into the target cell an effector protein fused to a protein transduction domain of a human immunodeficiency virus TAT protein or derivatives or functional analogs thereof. The present invention also relates to a fusion protein including an effector protein fused to a protein transduction domain of a human immunodeficiency virus TAT protein or derivatives or functional analogs thereof. Another aspect of the present invention relates to a DNA construct including a first DNA molecule encoding an effector protein and a second DNA molecule operatively associated with the first DNA molecule and encoding a protein transduction domain of a human immunodeficiency virus TAT protein or derivatives or functional analogs thereof and its use in a method for delivering effector proteins into a target cell.

11 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Cita	Front	Review	Classification	Date	Reference		Claims	KWIC	Draw Des
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☐ 75. Document ID: US 6464976 B1

L10: Entry 75 of 82

File: USPT

Oct 15, 2002

US-PAT-NO: 6464976
DOCUMENT-IDENTIFIER: US 6464976 B1

TITLE: Methods and compositions for reducing immune response

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LaFace; Drake M.	San Diego	CA		
Rahman; Amena	San Diego	CA		
Shabram; Paul W.	Olivenhain	CA		
Tsai; Van T.	San Diego	CA		

US-CL-CURRENT: 424/140.1; 424/131.1, 424/159.1, 424/233.1, 424/278.1, 424/93.1,
435/7.1, 514/885, 530/351, 604/4.01, 604/5.01, 604/5.02

ABSTRACT:

The present invention provides an apparatus and method to diminish the pre-existing immune response to the administration of a therapeutic virus by the selective elimination of antiviral antibodies from the serum. The present invention provides a chromatographic material for the elimination of such antibodies. The invention further provides plasmapheresis apparatus comprising this material. The invention further provides methods for the employment of such apparatus as part of therapeutic treatment regiments.

4 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Cite	Front	Review	Classification	Date	Reference	FIG. 1	FIG. 2	FIG. 3	FIG. 4	FIG. 5	FIG. 6	FIG. 7	FIG. 8	FIG. 9	FIG. 10	FIG. 11	FIG. 12	FIG. 13	FIG. 14	FIG. 15	FIG. 16	FIG. 17	FIG. 18	FIG. 19	FIG. 20	FIG. 21	FIG. 22	FIG. 23	FIG. 24	FIG. 25	FIG. 26	FIG. 27	FIG. 28	FIG. 29	FIG. 30	FIG. 31	FIG. 32	FIG. 33	FIG. 34	FIG. 35	FIG. 36	FIG. 37	FIG. 38	FIG. 39	FIG. 40	FIG. 41	FIG. 42	FIG. 43	FIG. 44	FIG. 45	FIG. 46	FIG. 47	FIG. 48	FIG. 49	FIG. 50	FIG. 51	FIG. 52	FIG. 53	FIG. 54	FIG. 55	FIG. 56	FIG. 57	FIG. 58	FIG. 59	FIG. 60	FIG. 61	FIG. 62	FIG. 63	FIG. 64	FIG. 65	FIG. 66	FIG. 67	FIG. 68	FIG. 69	FIG. 70	FIG. 71	FIG. 72	FIG. 73	FIG. 74	FIG. 75	FIG. 76	FIG. 77	FIG. 78	FIG. 79	FIG. 80	FIG. 81	FIG. 82	FIG. 83	FIG. 84	FIG. 85	FIG. 86	FIG. 87	FIG. 88	FIG. 89	FIG. 90	FIG. 91	FIG. 92	FIG. 93	FIG. 94	FIG. 95	FIG. 96	FIG. 97	FIG. 98	FIG. 99	FIG. 100	FIG. 101	FIG. 102	FIG. 103	FIG. 104	FIG. 105	FIG. 106	FIG. 107	FIG. 108	FIG. 109	FIG. 110	FIG. 111	FIG. 112	FIG. 113	FIG. 114	FIG. 115	FIG. 116	FIG. 117	FIG. 118	FIG. 119	FIG. 120	FIG. 121	FIG. 122	FIG. 123	FIG. 124	FIG. 125	FIG. 126	FIG. 127	FIG. 128	FIG. 129	FIG. 130	FIG. 131	FIG. 132	FIG. 133	FIG. 134	FIG. 135	FIG. 136	FIG. 137	FIG. 138	FIG. 139	FIG. 140	FIG. 141	FIG. 142	FIG. 143	FIG. 144	FIG. 145	FIG. 146	FIG. 147	FIG. 148	FIG. 149	FIG. 150	FIG. 151	FIG. 152	FIG. 153	FIG. 154	FIG. 155	FIG. 156	FIG. 157	FIG. 158	FIG. 159	FIG. 160	FIG. 161	FIG. 162	FIG. 163	FIG. 164	FIG. 165	FIG. 166	FIG. 167	FIG. 168	FIG. 169	FIG. 170	FIG. 171	FIG. 172	FIG. 173	FIG. 174	FIG. 175	FIG. 176	FIG. 177	FIG. 178	FIG. 179	FIG. 180	FIG. 181	FIG. 182	FIG. 183	FIG. 184	FIG. 185	FIG. 186	FIG. 187	FIG. 188	FIG. 189	FIG. 190	FIG. 191	FIG. 192	FIG. 193	FIG. 194	FIG. 195	FIG. 196	FIG. 197	FIG. 198	FIG. 199	FIG. 200	FIG. 201	FIG. 202	FIG. 203	FIG. 204	FIG. 205	FIG. 206	FIG. 207	FIG. 208	FIG. 209	FIG. 210	FIG. 211	FIG. 212	FIG. 213	FIG. 214	FIG. 215	FIG. 216	FIG. 217	FIG. 218	FIG. 219	FIG. 220	FIG. 221	FIG. 222	FIG. 223	FIG. 224	FIG. 225	FIG. 226	FIG. 227	FIG. 228	FIG. 229	FIG. 230	FIG. 231	FIG. 232	FIG. 233	FIG. 234	FIG. 235	FIG. 236	FIG. 237	FIG. 238	FIG. 239	FIG. 240	FIG. 241	FIG. 242	FIG. 243	FIG. 244	FIG. 245	FIG. 246	FIG. 247	FIG. 248	FIG. 249	FIG. 250	FIG. 251	FIG. 252	FIG. 253	FIG. 254	FIG. 255	FIG. 256	FIG. 257	FIG. 258	FIG. 259	FIG. 260	FIG. 261	FIG. 262	FIG. 263	FIG. 264	FIG. 265	FIG. 266	FIG. 267	FIG. 268	FIG. 269	FIG. 270	FIG. 271	FIG. 272	FIG. 273	FIG. 274	FIG. 275	FIG. 276	FIG. 277	FIG. 278	FIG. 279	FIG. 280	FIG. 281	FIG. 282	FIG. 283	FIG. 284	FIG. 285	FIG. 286	FIG. 287	FIG. 288	FIG. 289	FIG. 290	FIG. 291	FIG. 292	FIG. 293	FIG. 294	FIG. 295	FIG. 296	FIG. 297	FIG. 298	FIG. 299	FIG. 300	FIG. 301	FIG. 302	FIG. 303	FIG. 304	FIG. 305	FIG. 306	FIG. 307	FIG. 308	FIG. 309	FIG. 310	FIG. 311	FIG. 312	FIG. 313	FIG. 314	FIG. 315	FIG. 316	FIG. 317	FIG. 318	FIG. 319	FIG. 320	FIG. 321	FIG. 322	FIG. 323	FIG. 324	FIG. 325	FIG. 326	FIG. 327	FIG. 328	FIG. 329	FIG. 330	FIG. 331	FIG. 332	FIG. 333	FIG. 334	FIG. 335	FIG. 336	FIG. 337	FIG. 338	FIG. 339	FIG. 340	FIG. 341	FIG. 342	FIG. 343	FIG. 344	FIG. 345	FIG. 346	FIG. 347	FIG. 348	FIG. 349	FIG. 350	FIG. 351	FIG. 352	FIG. 353	FIG. 354	FIG. 355	FIG. 356	FIG. 357	FIG. 358	FIG. 359	FIG. 360	FIG. 361	FIG. 362	FIG. 363	FIG. 364	FIG. 365	FIG. 366	FIG. 367	FIG. 368	FIG. 369	FIG. 370	FIG. 371	FIG. 372	FIG. 373	FIG. 374	FIG. 375	FIG. 376	FIG. 377	FIG. 378	FIG. 379	FIG. 380	FIG. 381	FIG. 382	FIG. 383	FIG. 384	FIG. 385	FIG. 386	FIG. 387	FIG. 388	FIG. 389	FIG. 390	FIG. 391	FIG. 392	FIG. 393	FIG. 394	FIG. 395	FIG. 396	FIG. 397	FIG. 398	FIG. 399	FIG. 400	FIG. 401	FIG. 402	FIG. 403	FIG. 404	FIG. 405	FIG. 406	FIG. 407	FIG. 408	FIG. 409	FIG. 410	FIG. 411	FIG. 412	FIG. 413	FIG. 414	FIG. 415	FIG. 416	FIG. 417	FIG. 418	FIG. 419	FIG. 420	FIG. 421	FIG. 422	FIG. 423	FIG. 424	FIG. 425	FIG. 426	FIG. 427	FIG. 428	FIG. 429	FIG. 430	FIG. 431	FIG. 432	FIG. 433	FIG. 434	FIG. 435	FIG. 436	FIG. 437	FIG. 438	FIG. 439	FIG. 440	FIG. 441	FIG. 442	FIG. 443	FIG. 444	FIG. 445	FIG. 446	FIG. 447	FIG. 448	FIG. 449	FIG. 450	FIG. 451	FIG. 452	FIG. 453	FIG. 454	FIG. 455	FIG. 456	FIG. 457	FIG. 458	FIG. 459	FIG. 460	FIG. 461	FIG. 462	FIG. 463	FIG. 464	FIG. 465	FIG. 466	FIG. 467	FIG. 468	FIG. 469	FIG. 470	FIG. 471	FIG. 472	FIG. 473	FIG. 474	FIG. 475	FIG. 476	FIG. 477	FIG. 478	FIG. 479	FIG. 480	FIG. 481	FIG. 482	FIG. 483	FIG. 484	FIG. 485	FIG. 486	FIG. 487	FIG. 488	FIG. 489	FIG. 490	FIG. 491	FIG. 492	FIG. 493	FIG. 494	FIG. 495	FIG. 496	FIG. 497	FIG. 498	FIG. 499	FIG. 500	FIG. 501	FIG. 502	FIG. 503	FIG. 504	FIG. 505	FIG. 506	FIG. 507	FIG. 508	FIG. 509	FIG. 510	FIG. 511	FIG. 512	FIG. 513	FIG. 514	FIG. 515	FIG. 516	FIG. 517	FIG. 518	FIG. 519	FIG. 520	FIG. 521	FIG. 522	FIG. 523	FIG. 524	FIG. 525	FIG. 526	FIG. 527	FIG. 528	FIG. 529	FIG. 530	FIG. 531	FIG. 532	FIG. 533	FIG. 534	FIG. 535	FIG. 536	FIG. 537	FIG. 538	FIG. 539	FIG. 540	FIG. 541	FIG. 542	FIG. 543	FIG. 544	FIG. 545	FIG. 546	FIG. 547	FIG. 548	FIG. 549	FIG. 550	FIG. 551	FIG. 552	FIG. 553	FIG. 554	FIG. 555	FIG. 556	FIG. 557	FIG. 558	FIG. 559	FIG. 560	FIG. 561	FIG. 562	FIG. 563	FIG. 564	FIG. 565	FIG. 566	FIG. 567	FIG. 568	FIG. 569	FIG. 570	FIG. 571	FIG. 572	FIG. 573	FIG. 574	FIG. 575	FIG. 576	FIG. 577	FIG. 578	FIG. 579	FIG. 580	FIG. 581	FIG. 582	FIG. 583	FIG. 584	FIG. 585	FIG. 586	FIG. 587	FIG. 588	FIG. 589	FIG. 590	FIG. 591	FIG. 592	FIG. 593	FIG. 594	FIG. 595	FIG. 596	FIG. 597	FIG. 598	FIG. 599	FIG. 600	FIG. 601	FIG. 602	FIG. 603	FIG. 604	FIG. 605	FIG. 606	FIG. 607	FIG. 608	FIG. 609	FIG. 610	FIG. 611	FIG. 612	FIG. 613	FIG. 614	FIG. 615	FIG. 616	FIG. 617	FIG. 618	FIG. 619	FIG. 620	FIG. 621	FIG. 622	FIG. 623	FIG. 624	FIG. 625	FIG. 626	FIG. 627	FIG. 628	FIG. 629	FIG. 630	FIG. 631	FIG. 632	FIG. 633	FIG. 634	FIG. 635	FIG. 636	FIG. 637	FIG. 638	FIG. 639	FIG. 640	FIG. 641	FIG. 642	FIG. 643	FIG. 644	FIG. 645	FIG. 646	FIG. 647	FIG. 648	FIG. 649	FIG. 650	FIG. 651	FIG. 652	FIG. 653	FIG. 654	FIG. 655	FIG. 656	FIG. 657	FIG. 658	FIG. 659	FIG. 660	FIG. 661	FIG. 662	FIG. 663	FIG. 664	FIG. 665	FIG. 666	FIG. 667	FIG. 668	FIG. 669	FIG. 670	FIG. 671	FIG. 672	FIG. 673	FIG. 674	FIG. 675	FIG. 676	FIG. 677	FIG. 678	FIG. 679	FIG. 680	FIG. 681	FIG. 682	FIG. 683	FIG. 684	FIG. 685	FIG. 686	FIG. 687	FIG. 688	FIG. 689	FIG. 690	FIG. 691	FIG. 692	FIG. 693	FIG. 694	FIG. 695	FIG. 696	FIG. 697	FIG. 698	FIG. 699	FIG. 700	FIG. 701	FIG. 702	FIG. 703	FIG. 704	FIG. 705	FIG. 706	FIG. 707	FIG. 708	FIG. 709	FIG. 710	FIG. 711	FIG. 712	FIG. 713	FIG. 714	FIG. 715	FIG. 716	FIG. 717	FIG. 718	FIG. 719	FIG. 720	FIG. 721	FIG. 722	FIG. 723	FIG. 724	FIG. 725	FIG. 726	FIG. 727	FIG. 728	FIG. 729	FIG. 730	FIG. 731	FIG. 732	FIG. 733	FIG. 734	FIG. 735	FIG. 736	FIG. 737	FIG. 738	FIG. 739	FIG. 740	FIG. 741	FIG. 742	FIG. 743	FIG. 744	FIG. 745	FIG. 746	FIG. 747	FIG. 748	FIG. 749	FIG. 750	FIG. 751	FIG. 752	FIG. 753	FIG. 754	FIG. 755	FIG. 756	FIG. 757	FIG. 758	FIG. 759	FIG. 760	FIG. 761	FIG. 762	FIG. 763	FIG. 764	FIG. 765	FIG. 766	FIG. 767	FIG. 768	FIG. 769	FIG. 770	FIG. 771	FIG. 772	FIG. 773	FIG. 774	FIG. 775	FIG. 776	FIG. 777	FIG. 778	FIG. 779	FIG. 780	FIG. 781	FIG. 782	FIG. 783	FIG. 784	FIG. 785	FIG. 786	FIG. 787	FIG. 788	FIG. 789	FIG. 790	FIG. 791	FIG. 792	FIG. 793	FIG. 794	FIG. 795	FIG. 796	FIG. 797	FIG. 798	FIG. 799	FIG. 800	FIG. 801	FIG. 802	FIG. 803	FIG. 804	FIG. 805	FIG. 806	FIG. 807	FIG. 808	FIG. 809	FIG. 810	FIG. 811	FIG. 812	FIG. 813	FIG. 814	FIG. 815	FIG. 816	FIG. 817	FIG. 818	FIG. 819	FIG. 820	FIG. 821	FIG. 822	FIG. 823	FIG. 824	FIG. 825	FIG. 826	FIG. 827	FIG. 828	FIG. 829	FIG. 830	FIG. 831	FIG. 832	FIG. 833	FIG. 834	FIG. 835	FIG. 836	FIG. 837	FIG. 838	FIG. 839	FIG. 840	FIG. 841	FIG. 842	FIG. 843	FIG. 844	FIG. 845	FIG. 846	FIG. 847	FIG. 848	FIG. 849	FIG. 850	FIG. 851	FIG. 852	FIG. 853	FIG. 854	FIG. 855	FIG. 856	FIG. 857	FIG. 858	FIG. 859	FIG. 860	FIG. 861	FIG. 862	FIG. 863	FIG. 864	FIG. 865	FIG. 866	FIG. 867	FIG. 868	FIG. 869	FIG. 870	FIG. 871	FIG. 872	FIG. 873	FIG. 874	FIG. 875	FIG. 876	FIG. 877	FIG. 878	FIG. 879	FIG. 880	FIG. 881	FIG. 882	FIG. 883	FIG. 884	FIG. 885	FIG. 886	FIG. 887	FIG. 888	FIG. 889	FIG. 890	FIG. 891	FIG. 892	FIG. 893	FIG. 894	FIG. 895	FIG. 896	FIG. 897	FIG. 898	FIG. 899	FIG. 900	FIG. 901	FIG. 902	FIG. 903	FIG. 904	FIG. 905	FIG. 906	FIG. 907	FIG. 908	FIG. 909	FIG. 910	FIG. 911	FIG. 912	FIG. 913	FIG. 914	FIG. 915	FIG. 916	FIG. 917	FIG. 918	FIG. 919	FIG. 920	FIG. 921	FIG. 922	FIG. 923	FIG. 924	FIG. 925	FIG. 926	FIG. 927	FIG. 928	FIG. 929	FIG. 930	FIG. 931	FIG. 932	FIG. 933	FIG. 934	FIG. 935	FIG. 936	FIG. 937	FIG. 938	FIG. 939	FIG. 940	FIG. 941	FIG. 942	FIG. 943	FIG. 944	FIG. 945	FIG. 946	FIG. 947	FIG. 948	FIG. 949	FIG. 950	FIG. 951	FIG. 952	FIG. 953	FIG. 954	FIG. 955	FIG. 956	FIG. 957	FIG. 958	FIG. 959	FIG. 960	FIG. 961	FIG. 962	FIG. 963	FIG. 964	FIG. 965	FIG. 966	FIG. 967	FIG. 968	FIG. 969	FIG. 970	FIG. 971	FIG. 972	FIG. 973	FIG. 974	FIG. 975	FIG. 976	FIG. 977	FIG. 978	FIG. 979	FIG. 980	FIG. 981	FIG. 982	FIG. 983	FIG. 984	FIG. 985	FIG. 986	FIG. 987	FIG. 988	FIG. 989	FIG. 990	FIG. 991	FIG. 992	FIG. 993	FIG. 994	FIG. 995	FIG. 996	FIG. 997	FIG. 998	FIG. 999	FIG. 1000	FIG. 1001	FIG. 1002	FIG. 1003	FIG. 1004	FIG. 1005	FIG. 1006	FIG. 1007	FIG. 1008	FIG. 1009	FIG. 1010	FIG. 1011	FIG. 1012	FIG. 1013	FIG. 1014	FIG. 1015	FIG. 1016	FIG. 1017	FIG. 1018	FIG. 1019	FIG. 1020	FIG. 1021	FIG. 1022	FIG. 1023	FIG. 1024	FIG. 1025	FIG. 1026	FIG. 1027	FIG. 1028	FIG. 1029	FIG. 1030	FIG. 1031	FIG. 1032	FIG. 1033	FIG. 1034	FIG. 1035	FIG. 1036	FIG. 1037	FIG. 1038	FIG. 1039	FIG. 1040	FIG. 1041	FIG. 1042	FIG. 1043	FIG. 1044	FIG. 1045	FIG. 1046	FIG. 1047	FIG. 1048	FIG. 1049
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alphavirus) expression system, where gene expression is controlled by controlling expression of replicases or nonstructural proteins and/or controlling the amount of such proteins introduced in a cell, which in turn regulates RNA replication and subsequently gene expression. Particularly, this system takes advantage of the high level expression of the alphavirus systems for recombinant protein production and allows for large scale applications without biosafety concerns.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. Des.
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☐ 77. Document ID: US 6350572 B1

L10: Entry 77 of 82

File: USPT

Feb 26, 2002

US-PAT-NO: 6350572
DOCUMENT-IDENTIFIER: US 6350572 B1

TITLE: Interaction between cyclin D1 and steroid receptor coactivators and users thereof in assays

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bernards; Rene	Alcoude			NL
Zwijzen; Renate	Utrecht			NL

US-CL-CURRENT: 435/4, 435/41, 435/69.1, 435/69.4, 435/69.7, 435/7.1, 435/7.2, 435/7.21, 435/7.23, 435/7.8, 435/70.1, 435/70.3

ABSTRACT:

The present invention relates to the finding that cyclin D1 interacts in a ligand-independent fashion with coactivators of the SRC-1 family. The direct interaction of cyclin D1 enhances estrogen receptor (ER) mediated transcription and provides a novel target for the development of assays for substances which modulate the cell cycle. The invention provides assay methods for the prevention of growth of tumours, for assays for compounds useful in the prevention of tumours and compounds obtainable by such assays.

5 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Cita	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. Des.
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☐ 78. Document ID: US 6251398 B1

L10: Entry 78 of 82

File: USPT

Jun 26, 2001

US-PAT-NO: 6251398

**** See image for Certificate of Correction ****

TITLE: Materials and methods for intracellular transport and their uses

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Oxted			GB
Elliott; Gillian Daphne	Oxted			GB

US-CL-CURRENT: 424/186.1; 424/192.1, 424/204.1, 424/208.1, 424/248.1, 424/263.1, 435/235.1, 435/252.3, 435/317.1, 435/325, 530/350, 530/826, 536/23.4

ABSTRACT:

Coupled polypeptides and fusion polypeptides for intracellular transport, and their preparation and use, include (i) an aminoacid sequence with the transport function of herpesviral VP22 protein (or a homologue, e.g. from VZV, BHV or MDV) and (ii) another protein sequence selected from (a) proteins for cell cycle control; (b) suicide proteins; (c) antigenic sequences or antigenic proteins from microbial and viral antigens and tumor antigens; (d) immunomodulating proteins; and (e) therapeutic proteins. The coupled proteins can be used for intracellular delivery of protein sequences (ii), to exert the corresponding effector function in the target cell, and the fusion polypeptides can be expressed from corresponding polynucleotides, vectors and host cells.

19 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Cite	Front	Review	Classification	Date	Reference	Claims	RMCD	Draw. Des.
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☐ 79. Document ID: US 6221355 B1

L10: Entry 79 of 82

File: USPT

Apr 24, 2001

US-PAT-NO: 6221355

DOCUMENT-IDENTIFIER: US 6221355 B1

TITLE: Anti-pathogen system and methods of use thereof

DATE-ISSUED: April 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowdy; Steven F.	Clayton	MO		

US-CL-CURRENT: 424/192.1; 424/204.1, 424/208.1, 530/387.3, 530/388.3, 536/23.4

ABSTRACT:

The present invention provides an anti-pathogen system comprising one or more fusion proteins that includes a transduction domain and a cytotoxic domain. The cytotoxic domain is specifically activated by a pathogen infection. The anti-pathogen system

effectively kills or injures cells infected by one or a combination of different pathogens. Further provided are protein transduction domains that provide enhanced transduction efficiency.

21 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full	Title	Cite	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Des
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☐ 80. Document ID: US 6086900 A

L10: Entry 80 of 82

File: USPT

Jul 11, 2000

US-PAT-NO: 6086900
DOCUMENT-IDENTIFIER: US 6086900 A

TITLE: Methods and compositions for using membrane-penetrating proteins to carry materials across cell membranes

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Draper; Rockford	Plano	TX		

US-CL-CURRENT: 424/282.1; 435/320.1, 435/357, 435/358, 435/367, 435/372.2, 435/372.3, 435/455, 514/2, 514/44, 530/350, 530/387.1, 536/23.1, 536/23.4, 536/23.5, 536/23.7

ABSTRACT:

The present invention provides methods and compositions delivery of agents into the cytoplasm of cells. Particularly, it concerns the use of membrane-penetrating toxin proteins to deliver drugs to the cytoplasm of target cells.

62 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Cite	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Des
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☐ 81. Document ID: US 6017735 A

L10: Entry 81 of 82

File: USPT

Jan 25, 2000

US-PAT-NO: 6017735
DOCUMENT-IDENTIFIER: US 6017735 A

**** See image for Certificate of Correction ****

TITLE: Materials and methods for intracellular transport and their uses

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.11&ref=10&dbname=PGPB,USPT,US...> 9/22/04

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Oxted			GB
Elliott; Gillian Daphne	Oxted			GB

US-CL-CURRENT: 435/69.7; 435/252.3, 435/317.1, 435/320.1, 435/325, 435/69.3, 530/350, 536/23.4, 536/23.5

ABSTRACT:

Coupled polypeptides and fusion polypeptides for intracellular transport, and their preparation and use, include (i) an aminoacid sequence with the transport function of herpesviral VP22 protein (or a homologue, e.g. from VZV, BHV or MDV) and (ii) another protein sequence selected from (a) proteins for cell cycle control; (b) suicide proteins; (c) antigenic sequences or antigenic proteins from microbial and viral antigens and tumour antigens; (d) immunomodulating proteins; and (e) therapeutic proteins. The coupled proteins can be used for intracellular delivery of protein sequences (ii), to exert the corresponding effector function in the target cell, and the fusion polypeptides can be expressed from corresponding polynucleotides. vectors and host cells.

19 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Cita	Front	Review	Classification	Date	Reference	Abstract	Claims	MMIC	Drawing Des
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☐ 82. Document ID: US 20040142900 A1, WO 200147960 A1, AU 200122079 A, EP 1240190 A1, US 20020155988 A1, JP 2003519159 W, MX 2002006168 A1, US 6734167 B2

L10: Entry 82 of 82

File: DWPI

Jul 22, 2004

DERWENT-ACC-NO: 2001-418224

DERWENT-WEEK: 200449

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TITLE: Inhibiting cancer cell proliferation by exposing cells to a composition of fusion proteins comprising VP22 polypeptides coupled to cell cycle progression regulators, and further exposing cells to cell death stimulators

INVENTOR: BREWIS, N D; NORMAND, N M ; O'HARE, P F J ; PHELAN, A ; OHARE, P F J

PRIORITY-DATA: 1999GB-0030519 (December 24, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040142900 A1</u>	July 22, 2004		000	A61K048/00
<u>WO 200147960 A1</u>	July 5, 2001	E	023	C07K014/035
<u>AU 200122079 A</u>	July 9, 2001		000	C07K014/035
<u>EP 1240190 A1</u>	September 18, 2002	E	000	C07K014/035
<u>US 20020155988 A1</u>	October 24, 2002		000	A01N037/18
<u>JP 2003519159 W</u>	June 17, 2003		024	A61K047/48
<u>MX 2002006168 A1</u>	January 1, 2003		000	A61K047/48
<u>US 6734167 B2</u>	May 11, 2004		000	A61K038/00

INT-CL (IPC): A01 N 37/18; A61 K 31/7088; A61 K 38/00; A61 K 47/48; A61 K 48/00; A61 P 9/10; A61 P 17/02; A61 P 17/06; A61 P 35/00; C07 K 14/035; C12 N 15/85; G01 N 33/574

ABSTRACTED-PUB-NO: WO 200147960A

BASIC-ABSTRACT:

NOVELTY - Reducing proliferation of cells by exposing them to proteins with the transport function of herpes virus VP22 coupled to cell cycle progression regulator, or to nucleic acids encoding the proteins, further exposing cells to an agent to stimulate cell death and optionally exposing cells to an agent that prevents export of administered agents from cell.

DETAILED DESCRIPTION - Reducing (M1) proliferation of cells comprises:

(a) exposing the cells to a composition comprising a polypeptide which comprises an amino acid sequence with the transport function of herpes viral VP22 protein, and is coupled to one or several functionally active proteins or peptides (P1) which can regulate cell cycle progression or their functional analogues, or exposing cells to therapeutic compositions comprising nucleic acids encoding the proteins(s);

(b) exposing the cells to an agent (A1) to further stimulate cell death, the agent being a drug which can induce cell cycle arrest, cytotoxic chemotherapeutic drug commonly used as a part of a treatment of malignant disease, DNA damaging agent, an agent which increases cellular sensitivity to DNA damage, or cytotoxic amounts of radiation; and optionally after the step (a) and/or step (b); and

(c) further exposing the cells to an agent (A2) that prevents export from the cell of any one of the agents administered in the above steps.

An INDEPENDENT CLAIM is also included for the preparation (I) which comprises a coupling product between a protein with the transport function of VP22 and a protein which can regulate cell cycle progression, (A1) and optionally (A2), in combination with an excipient.

ACTIVITY - Antipsoriatic; cytostatic; dermatological; virucidal.

MECHANISM OF ACTION - Apoptosis inducer; cyclin-dependent kinase inhibitor (claimed); cell proliferation suppressor.

No supporting data is given.

USE - Reducing proliferation of hyper-proliferating cells e.g., cancer cells. (I) is useful for manufacturing a medicament to reduce or treat cell proliferation e.g., cancer cell proliferation (claimed).

(I) is useful for reducing or treating cell proliferation, in tumor cells present in tumor cell mass, non-malignant cells e.g., benign tumor cells such as genital warts, smooth muscle cells present in restenosis, proliferating skin cells e.g., skin cancer, psoriasis or eczema skin cells, or proliferating cells of scar tissue.

Full	Title	Cita	Front	Review	Classification	Date	Reference			Claims	RWMC	Draw. Des.
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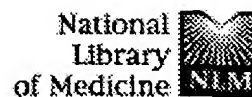
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1: Chhabra A, Mehrotra S, Chakraborty NG, Mukherji B, Dorsky DL. Related Articles, I

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E-Utilities

Cross-presentation of a human tumor antigen delivered to dendritic cells by H VP22-mediated protein translocation.
Eur J Immunol. 2004 Oct;34(10):2824.
PMID: 15368298 [PubMed - in process]

2: Cheng WF, Hung CF, Lee CN, Su YN, Chang MC, He L, Wu TC, Chen CA, Hsieh CY. Related Articles, I

Naked RNA vaccine controls tumors with down-regulated MHC class I expression through NK cells and perforin-dependent pathways.
Eur J Immunol. 2004 Jul;34(7):1892-900.
PMID: 15214037 [PubMed - indexed for MEDLINE]

3: Jarver P, Langel U. Related Articles, I

The use of cell-penetrating peptides as a tool for gene regulation.
Drug Discov Today. 2004 May 1;9(9):395-402. Review.
PMID: 15081956 [PubMed - indexed for MEDLINE]

4: Suzuki K, Murtuza B, Brand NJ, Varela-Carver A, Fukushima S, Yacoub MH. Related Articles, I

Enhanced effect of myocardial gene transfection by VP22-mediated intercellular protein transport.
J Mol Cell Cardiol. 2004 Apr;36(4):603-6.
PMID: 15081320 [PubMed - in process]

5: Qiu Z, Harms JS, Zhu J, Splitter GA. Related Articles, I

Bovine herpesvirus tegument protein VP22 enhances thymidine kinase/ganciclovir suicide gene therapy for neuroblastomas compared to herpes simplex virus VP22.
J Virol. 2004 Apr;78(8):4224-33.
PMID: 15047837 [PubMed - indexed for MEDLINE]

6: Falk K, Aspehaug V, Vlasak R, Endresen C. Related Articles, I

Identification and characterization of viral structural proteins of infectious salmon anemia virus.
J Virol. 2004 Mar;78(6):3063-71.
PMID: 14990725 [PubMed - indexed for MEDLINE]

7: Brady RO. Related Articles, I


Gaucher and Fabry diseases: from understanding pathophysiology to rational therapies.
Acta Paediatr Suppl. 2003 Dec;92(443):19-24.
PMID: 14989461 [PubMed - indexed for MEDLINE]

8: Kim TW, Hung CF, Kim JW, Juang J, Chen PJ, He L, Boyd DA, Wu TC. Related Articles, I


Vaccination with a DNA vaccine encoding herpes simplex virus type 1 VP22 linked to antigen generates long-term antigen-specific CD8-positive memory


cells and protective immunity.
Hum Gene Ther. 2004 Feb;15(2):167-77.
PMID: 14975189 [PubMed - in process]


-  **9:** [Barbe-Tuana FM, Machado DC, Saitovitch D.](#) Related Articles, 1

 **Modified location of the major histocompatibility protein Kb by co-delivery w**
VP22 protein.
Biomol Eng. 2004 Jan;21(1):27-31.
PMID: 14715317 [PubMed - indexed for MEDLINE]


-  **10:** [Roeder GE, Parish JL, Stern PL, Gaston K.](#) Related Articles, 1


 **Herpes Simplex Virus VP22-Human Papillomavirus E2 fusion proteins**
produced in mammalian or bacterial cells enter mammalian cells and induce
apoptotic cell death.
Biotechnol Appl Biochem. 2004 Jan 7 [Epub ahead of print]
PMID: 14709162 [PubMed - as supplied by publisher]


-  **11:** [Zavaglia D, Normand N, Brewis N, O'Hare P, Favrot MC, Coll JL.](#) Related Articles, 1


 **VP22-mediated and light-activated delivery of an anti-c-raf1 antisense**
oligonucleotide improves its activity after intratumoral injection in nude mic
Mol Ther. 2003 Nov;8(5):840-5.
PMID: 14599818 [PubMed - indexed for MEDLINE]


-  **12:** [Kuelto LA, Middaugh CR.](#) Related Articles, 1


 **Nonclassical transport proteins and peptides: an alternative to classical**
macromolecule delivery systems.
J Pharm Sci. 2003 Sep;92(9):1754-72. Review.
PMID: 12949995 [PubMed - indexed for MEDLINE]


-  **13:** [Stroh C, Held J, Samraj AK, Schulze-Osthoff K.](#) Related Articles, 1


 **Specific inhibition of transcription factor NF-kappaB through intracellular**
protein delivery of I kappaBalpha by the Herpes virus protein VP22.
Oncogene. 2003 Aug 14;22(34):5367-73.
PMID: 12917639 [PubMed - indexed for MEDLINE]


-  **14:** [van Leeuwen H, Okuwaki M, Hong R, Chakravarti D, Nagata K, O'Hare P.](#) Related Articles, 1


 **Herpes simplex virus type 1 tegument protein VP22 interacts with TAF-I**
proteins and inhibits nucleosome assembly but not regulation of histone
acetylation by INHAT.
J Gen Virol. 2003 Sep;84(Pt 9):2501-10.
PMID: 12917472 [PubMed - indexed for MEDLINE]


-  **15:** [Kong BH, Wang WX, Liu CS, Ma DX, Qu X.](#) Related Articles, 1

 **[Tegument viral protein 22 enhanced cell-killing effect of the herpes simplex**
virus thymidine kinase/ganciclovir system on ovarian cancer in vivo]
Zhonghua Fu Chan Ke Za Zhi. 2003 Apr;38(4):195-8. Chinese.
PMID: 12885362 [PubMed - in process]


-  **16:** [Rutjes SA, Bosma PJ, Rohn JL, Noteborn MH, Wesseling JG.](#) Related Articles, 1


 **Induction of insolubility by herpes simplex virus VP22 precludes intercellula**
trafficking of N-terminal Apoptin-VP22 fusion proteins.
J Mol Med. 2003 Sep;81(9):558-65. Epub 2003 Jul 16.
PMID: 12879152 [PubMed - indexed for MEDLINE]

-  **17:** [Lundberg M, Wikstrom S, Johansson M.](#) Related Articles, 1


 **Cell surface adherence and endocytosis of protein transduction domains.**
Mol Ther. 2003 Jul;8(1):143-50.


PMID: 12842437 [PubMed - indexed for MEDLINE]


-  **18:** [Kong B, Wang W, Liu C, Song L, Ma D, Qu X, Jiang J, Yang X, Zhang Y, Wang B, Wei MQ, Yang Q.](#) [Related Articles, I](#)

 **Efficacy of lentivirus-mediated and MUC1 antibody-targeted VP22-TK/GC suicide gene therapy for ovarian cancer.**
In Vivo. 2003 Mar-Apr;17(2):153-6.
PMID: 12792977 [PubMed - indexed for MEDLINE]


-  **19:** [Namiki S, Tomida T, Tanabe M, Iino M, Hirose K.](#) [Related Articles, I](#)

 **Intracellular delivery of glutathione S-transferase into mammalian cells.**
Biochem Biophys Res Commun. 2003 Jun 6;305(3):592-7.
PMID: 12763035 [PubMed - indexed for MEDLINE]


-  **20:** [Kretz A, Wybranietz WA, Hermening S, Lauer UM, Isenmann S.](#) [Related Articles, I](#)

 **HSV-1 VP22 augments adenoviral gene transfer to CNS neurons in the retina and striatum in vivo.**
Mol Ther. 2003 May;7(5 Pt 1):659-69.
PMID: 12718909 [PubMed - indexed for MEDLINE]


-  **21:** [Boenicke L, Chu K, Pauls R, Tams C, Kruse ML, Kurdow R, Schniewind B, Bohle A, Kremer B, Kalthoff H.](#) [Related Articles, I](#)


 **Efficient dose-dependent and time-dependent protein transduction of pancreatic carcinoma cells in vitro and in vivo using purified VP22-EGFP fusion protein.**
J Mol Med. 2003 Mar;81(3):205-13. Epub 2003 Mar 18.
PMID: 12682729 [PubMed - indexed for MEDLINE]


-  **22:** [Brignati MJ, Loomis JS, Wills JW, Courtney RJ.](#) [Related Articles, I](#)


 **Membrane association of VP22, a herpes simplex virus type 1 tegument protein.**
J Virol. 2003 Apr;77(8):4888-98.
PMID: 12663795 [PubMed - indexed for MEDLINE]


-  **23:** [Weitzman MD.](#) [Related Articles, I](#)

 **VP22 flips the switch on cell death.**
Mol Ther. 2003 Feb;7(2):146-7. No abstract available.
PMID: 12638542 [PubMed - indexed for MEDLINE]


-  **24:** [Walters JN, Sexton GL, McCaffery JM, Desai P.](#) [Related Articles, I](#)


 **Mutation of single hydrophobic residue I27, L35, F39, L58, L65, L67, or L77 at the N terminus of VP5 abolishes interaction with the scaffold protein and prevents closure of herpes simplex virus type 1 capsid shells.**
J Virol. 2003 Apr;77(7):4043-59.
PMID: 12634364 [PubMed - indexed for MEDLINE]

-  **25:** [Brewis ND, Phelan A, Normand N, Choolun E, O'Hare P.](#) [Related Articles, I](#)




















 **Particle assembly incorporating a VP22-BH3 fusion protein, facilitating intracellular delivery, regulated release, and apoptosis.**
Mol Ther. 2003 Feb;7(2):262-70.
PMID: 12597915 [PubMed - indexed for MEDLINE]










-  **26:** [Zavaglia D, Favrot MC, Eymen B, Tenaud C, Coll JL.](#) [Related Articles, I](#)

 **Intercellular trafficking and enhanced in vivo antitumour activity of a non-virally delivered P27-VP22 fusion protein.**
Gene Ther. 2003 Feb;10(4):314-25.
PMID: 12595890 [PubMed - indexed for MEDLINE]

-  **27:** [Roy I, Holle L, Song W, Holle E, Wagner T, Yu X.](#) [Related Articles, I](#)

Efficient translocation and apoptosis induction by adenovirus encoded VP22

-  **p53 fusion protein in human tumor cells in vitro.**
Anticancer Res. 2002 Nov-Dec;22(6A):3185-9.
PMID: 12530063 [PubMed - indexed for MEDLINE]
-  **28:** [Lyman MG, Demmin GL, Banfield BW.](#) Related Articles, 1
-  **The attenuated pseudorabies virus strain Bartha fails to package the tegumen proteins Us3 and VP22.**
J Virol. 2003 Jan;77(2):1403-14.
PMID: 12502856 [PubMed - indexed for MEDLINE]
-  **29:** [Cashman SM, Sadowski SL, Morris DJ, Frederick J, Kumar-Singh R.](#) Related Articles, 1
-  **Intercellular trafficking of adenovirus-delivered HSV VP22 from the retinal pigment epithelium to the photoreceptors--implications for gene therapy.**
Mol Ther. 2002 Dec;6(6):813-23.
PMID: 12498777 [PubMed - indexed for MEDLINE]
-  **30:** [Kong B, Wang W, Liu C, Ma D, Qu X, Jiang J, Yang X, Zhang Y, Jiang S.](#) Related Articles, 1
-  **[Anti-tumor effect of lentivirus-mediated MUC1 antibody-targeted gene therapy with VP22-TK system on MUC1(+) human ovarian cancer transplanted intraperitoneally in nude mice]**
Zhonghua Yi Xue Za Zhi. 2002 Sep 10;82(17):1207-10. Chinese.
PMID: 12475412 [PubMed - indexed for MEDLINE]
-  **31:** [Sherman MP, Schubert U, Williams SA, de Noronha CM, Kreisberg JF, Henklein P, Greene WC.](#) Related Articles, 1
-  **HIV-1 Vpr displays natural protein-transducing properties: implications for pathogenesis.**
Virology. 2002 Oct 10;302(1):95-105.
PMID: 12429519 [PubMed - indexed for MEDLINE]
-  **32:** [Ye D, Xu D, Singer AU, Juliano RL.](#) Related Articles, 1
-  **Evaluation of strategies for the intracellular delivery of proteins.**
Pharm Res. 2002 Sep;19(9):1302-9.
PMID: 12403066 [PubMed - indexed for MEDLINE]
-  **33:** [Hutchinson I, Whiteley A, Browne H, Elliott G.](#) Related Articles, 1
-  **Sequential localization of two herpes simplex virus tegument proteins to punctate nuclear dots adjacent to ICP0 domains.**
J Virol. 2002 Oct;76(20):10365-73.
PMID: 12239313 [PubMed - indexed for MEDLINE]
-  **34:** [Miranda-Saksena M, Boadle RA, Armati P, Cunningham AL.](#) Related Articles, 1
-  **In rat dorsal root ganglion neurons, herpes simplex virus type 1 tegument for in the cytoplasm of the cell body.**
J Virol. 2002 Oct;76(19):9934-51.
PMID: 12208970 [PubMed - indexed for MEDLINE]
-  **35:** [Qian C, Sangro B, Prieto J.](#) Related Articles, 1
-  **New strategies to enhance gene therapy efficiency.**
Gastroenterology. 2002 Aug;123(2):639-42. No abstract available.
PMID: 12145817 [PubMed - indexed for MEDLINE]
-  **36:** [Zender L, Kock R, Eckhard M, Frericks B, Gosling T, Gebhardt T, Drobek S, Galanski M, Kuhnel F, Manns M, Kubicka S.](#) Related Articles, 1
-  **Gene therapy by intrahepatic and intratumoral trafficking of p53-VP22 induces regression of liver tumors.**
Gastroenterology. 2002 Aug;123(2):608-18.
PMID: 12145813 [PubMed - indexed for MEDLINE]

-  **37:** [Fuchs W, Klupp BG, Granzow H, Hengartner C, Brack A, Mundt A, Enquist L W, Mettenleiter TC.](#) [Related Articles, I](#)
Physical interaction between envelope glycoproteins E and M of pseudorabies virus and the major tegument protein UL49.
J Virol. 2002 Aug;76(16):8208-17.
 PMID: 12134026 [PubMed - indexed for MEDLINE]
-  **38:** [Sciortino MT, Taddeo B, Poon AP, Mastino A, Roizman B.](#) [Related Articles, I](#)
Of the three tegument proteins that package mRNA in herpes simplex virion, one (VP22) transports the mRNA to uninfected cells for expression prior to infection.
Proc Natl Acad Sci U S A. 2002 Jun 11;99(12):8318-23.
 PMID: 12060774 [PubMed - indexed for MEDLINE]
-  **39:** [Zender L, Kuhnel F, Kock R, Manns M, Kubicka S.](#) [Related Articles, I](#)
VP22-mediated intercellular transport of p53 in hepatoma cells in vitro and in vivo.
Cancer Gene Ther. 2002 Jun;9(6):489-96.
 PMID: 12032659 [PubMed - indexed for MEDLINE]
-  **40:** [Morris SJ, Smith H, Sweet C.](#) [Related Articles, I](#)
Exploitation of the Herpes simplex virus translocating protein VP22 to carry influenza virus proteins into cells for studies of apoptosis: direct confirmation that neuraminidase induces apoptosis and indications that other proteins may have a role.
Arch Virol. 2002 May;147(5):961-79.
 PMID: 12021867 [PubMed - indexed for MEDLINE]
-  **41:** [Martin A, O'Hare P, McLauchlan J, Elliott G.](#) [Related Articles, I](#)
Herpes simplex virus tegument protein VP22 contains overlapping domains: cytoplasmic localization, microtubule interaction, and chromatin binding.
J Virol. 2002 May;76(10):4961-70.
 PMID: 11967313 [PubMed - indexed for MEDLINE]
-  **42:** [Wybranietz WA, Gross CD, Phelan A, O'Hare P, Spiegel M, Graeppler F, Bitzer M, Stahler P, Gregor M, Lauer UM.](#) [Related Articles, I](#)
Enhanced suicide gene effect by adenoviral transduction of a VP22-cytosine deaminase (CD) fusion gene.
Gene Ther. 2001 Nov;8(21):1654-64.
 PMID: 11895004 [PubMed - indexed for MEDLINE]
-  **43:** [Michel N, Osen W, Gissmann L, Schumacher TN, Zentgraf H, Muller M.](#) [Related Articles, I](#)
Enhanced immunogenicity of HPV 16 E7 fusion proteins in DNA vaccination.
Virology. 2002 Mar 1;294(1):47-59.
 PMID: 11886264 [PubMed - indexed for MEDLINE]
-  **44:** [van Leeuwen H, Elliott G, O'Hare P.](#) [Related Articles, I](#)
Evidence of a role for nonmuscle myosin II in herpes simplex virus type 1 egress.
J Virol. 2002 Apr;76(7):3471-81.
 PMID: 11884571 [PubMed - indexed for MEDLINE]
-  **45:** [Diefenbach RJ, Miranda-Saksena M, Diefenbach E, Holland DJ, Boadle RA, Armati PJ, Cunningham AL.](#) [Related Articles, I](#)
Herpes simplex virus tegument protein US11 interacts with conventional kinesin heavy chain.
J Virol. 2002 Apr;76(7):3282-91.

PMID: 11884553 [PubMed - indexed for MEDLINE]

46: [O'Donnell LA, Clemmer JA, Czymmek K, Schmidt CJ.](#)[Related Articles, I](#)**Marek's disease virus VP22: subcellular localization and characterization of carboxyl terminal deletion Mutations.**

Virology. 2002 Jan 20;292(2):235-40.

PMID: 11878926 [PubMed - indexed for MEDLINE]

47: [Soden J, Stevens A, Ray DW.](#)[Related Articles, I](#)**Genetic engineering of the glucocorticoid receptor by fusion with the herpes viral protein VP22 causes selective loss of transactivation.**

J Endocrinol. 2002 Mar;172(3):615-25.

PMID: 11874710 [PubMed - indexed for MEDLINE]

48: [Cheng WF, Hung CF, Hsu KF, Chai CY, He L, Polo JM, Slater LA, Ling M, Wu TC.](#)[Related Articles, I](#)**Cancer immunotherapy using Sindbis virus replicon particles encoding a VP antigen fusion.**

Hum Gene Ther. 2002 Mar 1;13(4):553-68.

PMID: 11874633 [PubMed - indexed for MEDLINE]

49: [Hung CF, He L, Juang J, Lin TJ, Ling M, Wu TC.](#)[Related Articles, I](#)**Improving DNA vaccine potency by linking Marek's disease virus type 1 VP to an antigen.**

J Virol. 2002 Mar;76(6):2676-82.

PMID: 11861834 [PubMed - indexed for MEDLINE]

50: [Lundberg M, Johansson M.](#)[Related Articles, I](#)**Positively charged DNA-binding proteins cause apparent cell membrane translocation.**

Biochem Biophys Res Commun. 2002 Feb 22;291(2):367-71.

PMID: 11846414 [PubMed - indexed for MEDLINE]

51: [Lai Z, Brady RO.](#)[Related Articles, I](#)**Gene transfer into the central nervous system in vivo using a recombinant lentivirus vector.**

J Neurosci Res. 2002 Feb 1;67(3):363-71.

PMID: 11813241 [PubMed - indexed for MEDLINE]

52: [Marples B, Greco O, Joiner MC, Scott SD.](#)[Related Articles, I](#)**Molecular approaches to chemo-radiotherapy.**

Eur J Cancer. 2002 Jan;38(2):231-9. Review.

PMID: 11803140 [PubMed - indexed for MEDLINE]

53: [Dorange F, Tischer BK, Vautherot JF, Osterrieder N.](#)[Related Articles, I](#)**Characterization of Marek's disease virus serotype 1 (MDV-1) deletion mutants that lack UL46 to UL49 genes: MDV-1 UL49, encoding VP22, is indispensable for virus growth.**

J Virol. 2002 Feb;76(4):1959-70.

PMID: 11799190 [PubMed - indexed for MEDLINE]

54: [Bennett RP, Dalby B, Guy PM.](#)[Related Articles, I](#)**Protein delivery using VP22.**

Nat Biotechnol. 2002 Jan;20(1):20. No abstract available. Erratum in: Nat Biotechnol 2002 Apr;20(4):338.

PMID: 11753353 [PubMed - indexed for MEDLINE]

55: [del Rio T, Werner HC, Enquist LW.](#)[Related Articles, I](#)



The pseudorabies virus VP22 homologue (UL49) is dispensable for virus growth in vitro and has no effect on virulence and neuronal spread in rodents
J Virol. 2002 Jan;76(2):774-82.
PMID: 11752167 [PubMed - indexed for MEDLINE]

☐ **56:** [Morris MC, Depollier J, Mery J, Heitz F, Divita G.](#)

[Related Articles, I](#)



A peptide carrier for the delivery of biologically active proteins into mamma cells.
Nat Biotechnol. 2001 Dec;19(12):1173-6.
PMID: 11731788 [PubMed - indexed for MEDLINE]

☐ **57:** [Derer W, Easwaran HP, Leonhardt H, Cardoso MC.](#)

[Related Articles, I](#)



A novel approach to induce cell cycle reentry in terminally differentiated mu cells.
FASEB J. 2002 Jan;16(1):132-3. Epub 2001 Nov 29.
PMID: 11729099 [PubMed - indexed for MEDLINE]

☐ **58:** [Blouin A, Blaho JA.](#)

[Related Articles, I](#)



Assessment of the subcellular localization of the herpes simplex virus structu protein VP22 in the absence of other viral gene products.
Virus Res. 2001 Dec 4;81(1-2):57-68.
PMID: 11682125 [PubMed - indexed for MEDLINE]

☐ **59:** [Geiss BJ, Tavis JE, Metzger LM, Leib DA, Morrison LA.](#)

[Related Articles, I](#)



Temporal regulation of herpes simplex virus type 2 VP22 expression and phosphorylation.
J Virol. 2001 Nov;75(22):10721-9.
PMID: 11602713 [PubMed - indexed for MEDLINE]

☐ **60:** [Ren X, Harms JS, Splitter GA.](#)

[Related Articles, I](#)



Tyrosine phosphorylation of bovine herpesvirus 1 tegument protein VP22 correlates with the incorporation of VP22 into virions.
J Virol. 2001 Oct;75(19):9010-7.
PMID: 11533164 [PubMed - indexed for MEDLINE]

☐ **61:** [Aints A, Guven H, Gahrton G, Smith CL, Dilber MS.](#)

[Related Articles, I](#)



Mapping of herpes simplex virus-1 VP22 functional domains for inter- and subcellular protein targeting.
Gene Ther. 2001 Jul;8(14):1051-6.
PMID: 11526452 [PubMed - indexed for MEDLINE]

☐ **62:** [Wills KN, Atencio JA, Avanzini JB, Neuteboom S, Phelan A, Philopena J, Sutjipto S, Vaillancourt MT, Wen SF, Ralston RO, Johnson DE.](#)

[Related Articles, I](#)



Intratumoral spread and increased efficacy of a p53-VP22 fusion protein expressed by a recombinant adenovirus.
J Virol. 2001 Sep;75(18):8733-41.
PMID: 11507218 [PubMed - indexed for MEDLINE]

☐ **63:** [Kotsakis A, Pomeranz LE, Blouin A, Blaho JA.](#)

[Related Articles, I](#)



Microtubule reorganization during herpes simplex virus type 1 infection facilitates the nuclear localization of VP22, a major virion tegument protein.
J Virol. 2001 Sep;75(18):8697-711.
PMID: 11507215 [PubMed - indexed for MEDLINE]






















☐ **64:** [Ren X, Harms JS, Splitter GA.](#)











[Related Articles, I](#)












































Bovine herpesvirus 1 tegument protein VP22 interacts with histones, and the carboxyl terminus of VP22 is required for nuclear localization.
J Virol. 2001 Sep;75(17):8251-8.



















PMID: 11483770 [PubMed - indexed for MEDLINE]

-  **65:** Lundberg M, Johansson M. Related Articles, 1
 **Is VP22 nuclear homing an artifact?**
Nat Biotechnol. 2001 Aug;19(8):713-4. No abstract available.
PMID: 11479552 [PubMed - indexed for MEDLINE]
-  **66:** Oliveira SC, Harms JS, Afonso RR, Splitter GA. Related Articles, 1
 **A genetic immunization adjuvant system based on BVP22-antigen fusion.**
Hum Gene Ther. 2001 Jul 1;12(10):1353-9.
PMID: 11440628 [PubMed - indexed for MEDLINE]
-  **67:** Ford KG, Souberbielle BE, Darling D, Farzaneh F. Related Articles, 1
 **Protein transduction: an alternative to genetic intervention?**
Gene Ther. 2001 Jan;8(1):1-4. Review.
PMID: 11402295 [PubMed - indexed for MEDLINE]
-  **68:** Spengler M, Niesen N, Grose C, Ruyechan WT, Hay J. Related Articles, 1
 **Interactions among structural proteins of varicella zoster virus.**
Arch Virol Suppl. 2001;(17):71-9.
PMID: 11339553 [PubMed - indexed for MEDLINE]
-  **69:** Liu CS, Kong B, Xia HH, Ellem KA, Wei MQ. Related Articles, 1
 **VP22 enhanced intercellular trafficking of HSV thymidine kinase reduced the level of ganciclovir needed to cause suicide cell death.**
J Gene Med. 2001 Mar-Apr;3(2):145-52.
PMID: 11318113 [PubMed - indexed for MEDLINE]
-  **70:** Hung CF, Cheng WF, Chai CY, Hsu KF, He L, Ling M, Wu TC. Related Articles, 1
 **Improving vaccine potency through intercellular spreading and enhanced MHC class I presentation of antigen.**
J Immunol. 2001 May 1;166(9):5733-40.
PMID: 11313416 [PubMed - indexed for MEDLINE]
-  **71:** Falnes PO, Wesche J, Olsnes S. Related Articles, 1
 **Ability of the Tat basic domain and VP22 to mediate cell binding, but not membrane translocation of the diphtheria toxin A-fragment.**
Biochemistry. 2001 Apr 10;40(14):4349-58.
PMID: 11284691 [PubMed - indexed for MEDLINE]
-  **72:** Normand N, van Leeuwen H, O'Hare P. Related Articles, 1
 **Particle formation by a conserved domain of the herpes simplex virus protein VP22 facilitating protein and nucleic acid delivery.**
J Biol Chem. 2001 May 4;276(18):15042-50. Epub 2001 Jan 18.
PMID: 11278656 [PubMed - indexed for MEDLINE]
-  **73:** Schwartz JJ, Zhang S. Related Articles, 1
 **Peptide-mediated cellular delivery.**
Curr Opin Mol Ther. 2000 Apr;2(2):162-7. Review.
PMID: 11249637 [PubMed - indexed for MEDLINE]
-  **74:** Donnelly M, Elliott G. Related Articles, 1
 **Fluorescent tagging of herpes simplex virus tegument protein VP13/14 in virion infection.**
J Virol. 2001 Mar;75(6):2575-83.
PMID: 11222680 [PubMed - indexed for MEDLINE]
-  **75:** Rajcani J, Durmanova V. Related Articles, 1

-  **Early expression of herpes simplex virus (HSV) proteins and reactivation of latent infection.**
Folia Microbiol (Praha). 2000;45(1):7-28. Review.
PMID: 11200675 [PubMed - indexed for MEDLINE]
-  **76: Cheng WF, Hung CH, Chai CY, Hsu KF, He L, Ling M, Wu TC.** Related Articles, 1
Enhancement of sindbis virus self-replicating RNA vaccine potency by linka of herpes simplex virus type 1 VP22 protein to antigen.
J Virol. 2001 Mar;75(5):2368-76.
PMID: 11160740 [PubMed - indexed for MEDLINE]
-  **77: Koelle DM, Schomogyi M, McClurkan C, Reymond SN, Chen HB.** Related Articles, 1
CD4 T-cell responses to herpes simplex virus type 2 major capsid protein V1 comparison with responses to tegument and envelope glycoproteins.
J Virol. 2000 Dec;74(23):11422-5.
PMID: 11070045 [PubMed - indexed for MEDLINE]
-  **78: Lai Z, Han L, Zirzow G, Brady RO, Reiser J.** Related Articles, 1
Intercellular delivery of a herpes simplex virus VP22 fusion protein from cel infected with lentiviral vectors.
Proc Natl Acad Sci U S A. 2000 Oct 10;97(21):11297-302.
PMID: 11027330 [PubMed - indexed for MEDLINE]
-  **79: Pomeranz LE, Blaho JA.** Related Articles, 1
Assembly of infectious Herpes simplex virus type 1 virions in the absence of full-length VP22.
J Virol. 2000 Nov;74(21):10041-54.
PMID: 11024133 [PubMed - indexed for MEDLINE]
-  **80: Dorange F, El Mehdaoui S, Pichon C, Coursaget P, Vautherot JF.** Related Articles, 1
Marek's disease virus (MDV) homologues of herpes simplex virus type 1 UL (VP22) and UL48 (VP16) genes: high-level expression and characterization MDV-1 VP22 and VP16.
J Gen Virol. 2000 Sep;81(Pt 9):2219-30.
PMID: 10950980 [PubMed - indexed for MEDLINE]
-  **81: Kuelto LA, Normand N, O'Hare P, Middaugh CR.** Related Articles, 1
Conformational lability of herpesvirus protein VP22.
J Biol Chem. 2000 Oct 27;275(43):33213-21.
PMID: 10913125 [PubMed - indexed for MEDLINE]
-  **82: Aints A, Dilber MS, Smith CL.** Related Articles, 1
Intercellular spread of GFP-VP22.
J Gene Med. 1999 Jul-Aug;1(4):275-9.
PMID: 10738560 [PubMed - indexed for MEDLINE]
-  **83: Wybranietz WA, Prinz F, Spiegel M, Schenk A, Bitzer M, Gregor M, Lauer UM.** Related Articles, 1
Quantification of VP22-GFP spread by direct fluorescence in 15 commonly used cell lines.
J Gene Med. 1999 Jul-Aug;1(4):265-74.
PMID: 10738559 [PubMed - indexed for MEDLINE]
-  **84: Harms JS, Ren X, Oliveira SC, Splitter GA.** Related Articles, 1
Distinctions between bovine herpesvirus 1 and herpes simplex virus type 1 VP22 tegument protein subcellular associations.
J Virol. 2000 Apr;74(7):3301-12.
PMID: 10708447 [PubMed - indexed for MEDLINE]

-  **85:** [Elliott G, O'Hare P.](#) Related Articles, 1
-  **Cytoplasm-to-nucleus translocation of a herpesvirus tegument protein during cell division.**
J Virol. 2000 Mar;74(5):2131-41.
PMID: 10666242 [PubMed - indexed for MEDLINE]
-  **86:** [Brewis N, Phelan A, Webb J, Drew J, Elliott G, O'Hare P.](#) Related Articles, 1
-  **Evaluation of VP22 spread in tissue culture.**
J Virol. 2000 Jan;74(2):1051-6.
PMID: 10623773 [PubMed - indexed for MEDLINE]
-  **87:** [Derer W, Easwaran HP, Knopf CW, Leonhardt H, Cardoso MC.](#) Related Articles, 1
-  **Direct protein transfer to terminally differentiated muscle cells.**
J Mol Med. 1999 Aug;77(8):609-13.
PMID: 10543392 [PubMed - indexed for MEDLINE]
-  **88:** [Luft FC.](#) Related Articles, 1
-  **Can VP22 resurrect gene therapy?**
J Mol Med. 1999 Aug;77(8):575-6. No abstract available.
PMID: 10543389 [PubMed - indexed for MEDLINE]
-  **89:** [Pomeranz LE, Blaho JA.](#) Related Articles, 1
-  **Modified VP22 localizes to the cell nucleus during synchronized herpes simplex virus type 1 infection.**
J Virol. 1999 Aug;73(8):6769-81.
PMID: 10400775 [PubMed - indexed for MEDLINE]
-  **90:** [Elliott G, O'Reilly D, O'Hare P.](#) Related Articles, 1
-  **Identification of phosphorylation sites within the herpes simplex virus tegument protein VP22.**
J Virol. 1999 Jul;73(7):6203-6.
PMID: 10364384 [PubMed - indexed for MEDLINE]
-  **91:** [Dilber MS, Phelan A, Aints A, Mohamed AJ, Elliott G, Smith CI, O'Hare P.](#) Related Articles, 1
-  **Intercellular delivery of thymidine kinase prodrug activating enzyme by the herpes simplex virus protein, VP22.**
Gene Ther. 1999 Jan;6(1):12-21.
PMID: 10341871 [PubMed - indexed for MEDLINE]
-  **92:** [Elliott G, O'Hare P.](#) Related Articles, 1
-  **Intercellular trafficking of VP22-GFP fusion proteins.**
Gene Ther. 1999 Jan;6(1):149-51.
PMID: 10341888 [PubMed - indexed for MEDLINE]
-  **93:** [Murphy AL, Murphy SJ.](#) Related Articles, 1
-  **Catch VP22: the hitch-hiker's ride to gene therapy?**
Gene Ther. 1999 Jan;6(1):4-5. No abstract available.
PMID: 10341869 [PubMed - indexed for MEDLINE]
-  **94:** [Elliott G, O'Hare P.](#) Related Articles, 1
-  **Live-cell analysis of a green fluorescent protein-tagged herpes simplex virus infection.**
J Virol. 1999 May;73(5):4110-9.
PMID: 10196307 [PubMed - indexed for MEDLINE]
-  **95:** [Fang B, Xu B, Koch P, Roth JA.](#) Related Articles, 1

-  Intercellular trafficking of VP22-GFP fusion proteins is not observed in cultured mammalian cells.
Gene Ther. 1998 Oct;5(10):1420-4.
PMID: 9930348 [PubMed - indexed for MEDLINE]
-  **96:** [Morrison EE, Stevenson AJ, Wang YF, Meredith DM.](#) [Related Articles, 1](#)
 Differences in the intracellular localization and fate of herpes simplex virus tegument proteins early in the infection of Vero cells.
J Gen Virol. 1998 Oct;79 (Pt 10):2517-28.
PMID: 9780059 [PubMed - indexed for MEDLINE]
-  **97:** [Koelle DM, Frank JM, Johnson ML, Kwok WW.](#) [Related Articles, 1](#)
 Recognition of herpes simplex virus type 2 tegument proteins by CD4 T cell infiltrating human genital herpes lesions.
J Virol. 1998 Sep;72(9):7476-83.
PMID: 9696844 [PubMed - indexed for MEDLINE]
-  **98:** [Morrison EE, Wang YF, Meredith DM.](#) [Related Articles, 1](#)
 Phosphorylation of structural components promotes dissociation of the herpes simplex virus type 1 tegument.
J Virol. 1998 Sep;72(9):7108-14.
PMID: 9696804 [PubMed - indexed for MEDLINE]
-  **99:** [Elliott G, O'Hare P.](#) [Related Articles, 1](#)
 Herpes simplex virus type 1 tegument protein VP22 induces the stabilization and hyperacetylation of microtubules.
J Virol. 1998 Aug;72(8):6448-55.
PMID: 9658087 [PubMed - indexed for MEDLINE]
-  **100:** [Phelan A, Elliott G, O'Hare P.](#) [Related Articles, 1](#)
 Intercellular delivery of functional p53 by the herpesvirus protein VP22.
Nat Biotechnol. 1998 May;16(5):440-3.
PMID: 9592391 [PubMed - indexed for MEDLINE]
-  **101:** [Liang X, Chow B, Babiuk LA.](#) [Related Articles, 1](#)
 Study of immunogenicity and virulence of bovine herpesvirus 1 mutants deficient in the UL49 homolog, UL49.5 homolog and dUTPase genes in calves.
Vaccine. 1997 Jul;15(10):1057-64.
PMID: 9269047 [PubMed - indexed for MEDLINE]
-  **102:** [Elliott G, O'Hare P.](#) [Related Articles, 1](#)
 Intercellular trafficking and protein delivery by a herpesvirus structural protein.
Cell. 1997 Jan 24;88(2):223-33.
PMID: 9008163 [PubMed - indexed for MEDLINE]
-  **103:** [McLauchlan J.](#) [Related Articles, 1](#)
 The abundance of the herpes simplex virus type 1 UL37 tegument protein in virus particles is closely controlled.
J Gen Virol. 1997 Jan;78 (Pt 1):189-94.
PMID: 9010303 [PubMed - indexed for MEDLINE]
-  **104:** [Elliott G, O'Reilly D, O'Hare P.](#) [Related Articles, 1](#)
 Phosphorylation of the herpes simplex virus type 1 tegument protein VP22.
Virology. 1996 Dec 1;226(1):140-5.
PMID: 8941333 [PubMed - indexed for MEDLINE]
-  **105:** [Leslie J, Rixon FJ, McLauchlan J.](#) [Related Articles, 1](#)

-  **Overexpression of the herpes simplex virus type 1 tegument protein VP22 increases its incorporation into virus particles.**
Virology. 1996 Jun 1;220(1):60-8.
PMID: 8659129 [PubMed - indexed for MEDLINE]
-  **106:** Elliott G, Mouzakis G, O'Hare P. Related Articles, 1
 **VP16 interacts via its activation domain with VP22, a tegument protein of herpes simplex virus, and is relocated to a novel macromolecular assembly coexpressing cells.**
J Virol. 1995 Dec;69(12):7932-41.
PMID: 7494306 [PubMed - indexed for MEDLINE]
-  **107:** Dargan DJ, Patel AH, Subak-Sharpe JH. Related Articles, 1
 **PREPs: herpes simplex virus type 1-specific particles produced by infected cells when viral DNA replication is blocked.**
J Virol. 1995 Aug;69(8):4924-32.
PMID: 7609061 [PubMed - indexed for MEDLINE]
-  **108:** Liang X, Chow B, Li Y, Raggo C, Yoo D, Attah-Poku S, Babiuk LA. Related Articles, 1
 **Characterization of bovine herpesvirus 1 UL49 homolog gene and product: bovine herpesvirus 1 UL49 homolog is dispensable for virus growth.**
J Virol. 1995 Jun;69(6):3863-7.
PMID: 7745736 [PubMed - indexed for MEDLINE]
-  **109:** Koptidesova D, Kopacek J, Zelnik V, Ross NL, Pastorekova S, Pastorek J. Related Articles, 1
 **Identification and characterization of a cDNA clone derived from the Marek disease tumour cell line RPL1 encoding a homologue of alpha-transinducin factor (VP16) of HSV-1.**
Arch Virol. 1995;140(2):355-62.
PMID: 7710361 [PubMed - indexed for MEDLINE]
-  **110:** Coulter LJ, Moss HW, Lang J, McGeoch DJ. Related Articles, 1
 **A mutant of herpes simplex virus type 1 in which the UL13 protein kinase gene is disrupted.**
J Gen Virol. 1993 Mar;74 (Pt 3):387-95.
PMID: 8383174 [PubMed - indexed for MEDLINE]
-  **111:** Elliott GD, Meredith DM. Related Articles, 1
 **The herpes simplex virus type 1 tegument protein VP22 is encoded by gene UL49.**
J Gen Virol. 1992 Mar;73 (Pt 3):723-6.
PMID: 1312128 [PubMed - indexed for MEDLINE]
-  **112:** Meredith DM, Lindsay JA, Halliburton IW, Whittaker GR. Related Articles, 1
 **Post-translational modification of the tegument proteins (VP13 and VP14) of herpes simplex virus type 1 by glycosylation and phosphorylation.**
J Gen Virol. 1991 Nov;72 (Pt 11):2771-5.
PMID: 1658203 [PubMed - indexed for MEDLINE]
-  **113:** Baker TS, Newcomb WW, Booy FP, Brown JC, Steven AC. Related Articles, 1
 **Three-dimensional structures of maturable and abortive capsids of equine herpesvirus 1 from cryoelectron microscopy.**
J Virol. 1990 Feb;64(2):563-73.
PMID: 2153224 [PubMed - indexed for MEDLINE]
-  **114:** Knopf KW, Kaerner HC. Related Articles, 1



Virus-specific basic phosphoproteins associated with herpes simplex virus 1
a (HSV-1) particles and the chromatin of HSV-1-infected cells.

J Gen Virol. 1980 Feb;46(2):405-14.

PMID: 6247428 [PubMed - indexed for MEDLINE]

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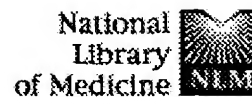
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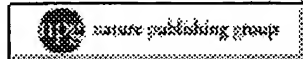
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AU Koptidesova, D.; Kopacek, J.; Zelnik, V.; Ross, N.L.J.; Pastorekova, S.; Pastorek, J.

CS Slovak Academy of Sciences, Bratislava, Slovak Republic.

AV DNAL (448.3 Ar23)

SO Archives of virology, ***1995*** Vol. 140, No. 2. p. 355-362

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SO Nature Biotechnology, (***1998***) Vol.16, No.5, p.440-443.

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 TI Phogen's ***VP22*** tech piggy-backs proteins into target cells.
 AU Anon
 SO European Biotechnology Newsletter, (***1998***) No.267, May 21, p.12.
 ISSN: 0765-2046.
 DT ARTICLE
 FS UNIQUE
 LA English

L3 ANSWER 6 OF 199 BIOBUSINESS COPYRIGHT (c) 1998 The Thomson Corporation.
 on STN
 AN 97:33268 BIOBUSINESS
 DN 0890803
 TI Phogen JV explores potential of herpesvirus drug delivery.
 AU Anon
 SO Genetic Engineering News, (***1997***) Vol.17, No.6, March 15, p.4.
 ISSN: 0270-6377.
 DT ARTICLE
 FS UNIQUE
 LA English

L3 ANSWER 7 OF 199 BIOBUSINESS COPYRIGHT (c) 1998 The Thomson Corporation.
 on STN
 AN 97:32996 BIOBUSINESS
 DN 0890531
 TI Cantab and MCCC will develop herpesvirus drug delivery.
 AU Anon
 SO Genetic Technology News, (***1997***) Vol.17, No.4, April, p.12.
 ISSN: 0272-9032.
 DT ARTICLE
 FS UNIQUE
 LA English

L3 ANSWER 8 OF 199 BIOBUSINESS COPYRIGHT (c) 1998 The Thomson Corporation.
 on STN
 AN 97:30348 BIOBUSINESS
 DN 0887883
 TI Cantab joins forces with MCCC to form biotech company.
 AU Anon
 SO Pharmaceutical Business News, (***1997***) Vol.13, No.287, March 12,
 p.18.
 ISSN: 0956-0661.
 DT ARTICLE
 FS UNIQUE
 LA English

L3 ANSWER 9 OF 199 BIOBUSINESS COPYRIGHT (c) 1998 The Thomson Corporation.
 on STN
 AN 97:27599 BIOBUSINESS
 DN 0885134
 TI ***VP22*** : A new movement in protein transport.
 AU Marshall A; Castellino A
 CS Dep. Cell Biol. Anatomy, Cornell Univ. Med. Coll., 1300 York Ave., New

SO York, NY 10021, USA.
 Nature Biotechnology, (***1997***) Vol.15, No.3, March, p.205.
 ISSN: 1087-0156.
 DT ARTICLE
 FS UNIQUE
 LA English

L3 ANSWER 10 OF 199 BIOBUSINESS COPYRIGHT (c) 1998 The Thomson Corporation.
 on STN
 AN 97:24738 BIOBUSINESS
 DN 0882273
 TI Could cold sores be gene therapy's best friend?
 AU Coghlan A
 SO New Scientist, (***1997***) Vol.153, No.2069, Feb. 15, P.25.
 ISSN: 0262-4079.
 FS UNIQUE
 LA ENGLISH

L3 ANSWER 11 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
 AN 0183317 BIOCOMMERCE FS Abstract
 CO Phogen Ltd (41282), UK
 Washington University (3086), USA
 Idun Pharmaceuticals Inc (28890), USA
 SO Pharmaceutical Business News, 10 SEP 1999, vol. 349, Page(s) 22.
 TC (Company information)

L3 ANSWER 12 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
 AN 0180669 BIOCOMMERCE FS Abstract
 CO Phogen Ltd (41282), UK
 Cantab Pharmaceuticals plc (26256), UK
 Marie Curie Cancer Care (MCCC) (41041), UK
 Xenova Group plc (29007), UK
 SO Scrip, 26 MAY 1999, vol. 2440, Page(s) 14.
 Pharma Marketletter, 24 MAY 1999, vol. 2621, Page(s) 6.
 TC (Company information)

L3 ANSWER 13 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
 AN 0178060 BIOCOMMERCE FS Abstract
 CO Phogen Ltd (41282), UK
 Cantab Pharmaceuticals plc (26256), UK
 Marie Curie Cancer Care (MCCC) (41041), UK
 Xenova Group plc (29007), UK
 SO Scrip, 22 JAN 1999, vol. 2405, Page(s) 22.
 Pharmaceutical Business News, 22 JAN 1999, vol. 15334, Page(s) 26.
 TC (Company information)

L3 ANSWER 14 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
 AN 0177649 BIOCOMMERCE FS Abstract
 CO Phogen Ltd (41282), UK
 Karolinska Institute (KI) (602), Sweden
 Marie Curie Cancer Care (MCCC) (41041), UK
 Cantab Pharmaceuticals plc (26256), UK
 NASDAQ Stock Market (33303), USA
 Xenova Group plc (29007), UK
 SO Phogen Press Release, 11 JAN 1999
 TC (Company information)

L3 ANSWER 15 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
 AN 0176533 BIOCOMMERCE FS Abstract
 CO Phogen Ltd (41282), UK
 Cantab Pharmaceuticals Research Ltd (26181), UK
 Marie Curie Cancer Care (MCCC) (41041), UK
 Chemo-Sero-Therapeutic Research Institute, The (Kaketsuken) (2351), Japan
 Xenova Research Ltd (49192), UK
 SO Genetic Engineering News, 01 NOV 1998, vol. 1819, Page(s) 1,22,39,42.
 TC General Review

L3 ANSWER 16 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
 AN 0173423 BIOCOMMERCE FS Abstract
 CO Phogen Ltd (41282), UK
 Cantab Pharmaceuticals plc (26256), UK
 Marie Curie Cancer Care (MCCC) (41041), UK
 Invitrogen Corp (17791), USA
 Marie Curie Research Institute (15418), UK
 Xenova Group plc (29007), UK
 SO Pharm Science & Technology Today, JUN 1998, vol. 13, Page(s) 92-93.

TC General Review

L3 ANSWER 17 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
AN 0171772 BIOCOMMERCE FS Abstract
CO Marie Curie Research Institute (15418), UK
Texas A&M University (4987), USA
SO Nature Biotechnology, MAY 1998, vol. 165, Page(s) 418-419, 440-443.
Chemistry in Britain, AUG 1998, vol. 348, Page(s) 19.
TC (Institute information)

L3 ANSWER 18 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
AN 0170624 BIOCOMMERCE FS Abstract
CO Phogen Ltd (41282), UK
Invitrogen Corp (17791), USA
SO Scrip, 15 MAY 1998, vol. 2335, Page(s) 29.
Genetic Technology News, 13 MAY 1998, vol. 1819, Page(s) 3.
In Vivo, MAY 1998, vol. 165, Page(s) 74-75.
TC (Company information)

L3 ANSWER 19 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
AN 0169739 BIOCOMMERCE FS Abstract
CO Phogen Ltd (41282), UK
Cantab Pharmaceuticals plc (26256), UK
Marie Curie Research Institute (15418), UK
Xenova Group plc (29007), UK
SO Cantab Pharmaceuticals Press Release, 08 MAY 1998, vol. 320, Page(s) 1,8.
BioWorld International, 20 MAY 1998, vol. 165, Page(s) 440-443.
Nature Biotechnology, MAY 1998, vol. 2335, Page(s) 29.
Scrip, 15 MAY 1998, vol. 136, Page(s) 30.
BioVenture View, JUN 1998, vol. 267, Page(s) 12.
European Biotechnology Newsletter, 21 MAY 1998, vol. 2,340, Page(s) 724.
Gene Therapy, 03 JUN 1998, vol. 1811, Page(s) 2.
Applied Genetics News, JUN 1998
TC (Company information)

L3 ANSWER 20 OF 199 BIOCOMMERCE COPYRIGHT 2004 BioCommerce Data Ltd. on STN
AN 0152695 BIOCOMMERCE FS Abstract
CO Cantab Pharmaceuticals plc (26256), UK
Marie Curie Cancer Care (MCCC) (41041), UK
Phogen Ltd (41282), UK
Xenova Group plc (29007), UK
SO Cantab Pharmaceuticals Press Release, 27 FEB 1997, vol. 210, Page(s) 24.
Times, 28 FEB 1997, vol. 2213, Page(s) 1,3.
BioWorld International, 05 MAR 1997, vol. 43, Page(s) 10.
Scrip, 11 MAR 1997, vol. 2410, Page(s) 178.
Gene Therapy, MAR 1997, vol. 68, Page(s) 28.
Marketletter, 10 MAR 1997, vol. 13287, Page(s) 8-9.
R&D Focus Drug News, 10 MAR 1997, vol. 6, Page(s) 18.
Pharmaceutical Business News, 12 MAR 1997, vol. 710, Page(s) 202.
Chemistry and Industry, 17 MAR 1997, vol. 611, Page(s) 8.
BIA Bulletin, MAY 1997, vol. 2412, Page(s) 28.
Marketletter, 04 MAY 1998, vol. 421, Page(s) 6-7.
Pharmaceutical Ventures, 10 MAR 1997, vol. 176, Page(s) 10.
R&D Focus Drug News, 31 MAR 1997, vol. 44, Page(s) 4.
Marketletter, 24 MAR 1997, vol. 519, Page(s) 7.
European Biotechnology Newsletter, 20 MAR 1997, vol. 174, Page(s) 14.
Biotechnology Newswatch, 03 MAR 1997, vol. 335, Page(s) 13.
Cancer Weekly, 10 MAR 1997, vol. 95, Page(s) 9-10.
Gene Therapy Weekly, 10 MAR 1997, vol. 104, Page(s) 4.
Genetic Engineering News, 15 MAR 1997, Page(s) 272.
Gene Therapy, APR 1997, Page(s) 3.
BioWorld Financial Watch, 12 MAY 1997, Page(s) 8.
Pharmaceutical Times, APR 1997, Page(s) 12.
Genetic Technology News, APR 1997, Page(s) 10.
Chemistry in Britain, MAY 1997, Page(s) 10.
Pharmaceutical Technology Europe, MAY 1997, Page(s) 11.
BioPharm, APR 1997, Page(s) 4.
Nature UK Product Review, MAY 1997, Page(s) 8.
BIA Bulletin, MAY 1998, Page(s) 10.
BioPharm Showcase, JUL 1998
TC (Company information)

L3 ANSWER 21 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
AN 2004383604 BIOENG
DN 4597965
TI Intercellular Spread of GFP- ***VP22***

AU Aints, A; Dilber, MS; Smith, CIE*
CS Center for Biotechnology, Department of Biosciences at Novum, Karolinska
Institutet, Haelsovaegen 7, S-14157, Huddinge, Sweden,
[mailto:edvard.smith@cbt.ki.se]
SO Journal of Gene Medicine [J. Gene Med.]. Vol. 1, no. 4, pp. 275-279.
Jul-Aug 1999.
ISSN: 1099-498X
DT Journal
LA English
SL English
OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 22 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
AN 2004383603 BIOENG
DN 4597964
TI Quantification of ****VP22**** -GFP Spread by Direct Fluorescence in 15
Commonly Used Cell Lines
AU Wybranietz, WA; Prinz, F; Spiegel, M; Schenk, A; Bitzer, M; Gregor, M;
Lauer, UM
CS Internal Medicine I, Medical University Clinic Tuebingen, Otfried
Mueller-Str. 10, D-72076 Tuebingen, Germany,
[mailto:wolfgang.wybranietz@uni-tuebingen.de]
SO Journal of Gene Medicine [J. Gene Med.]. Vol. 1, no. 4, pp. 265-274.
Jul-Aug 1999.
ISSN: 1099-498X
DT Journal
LA English
SL English
OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 23 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
AN 2004373949 BIOENG
DN 4449126
TI Intercellular trafficking of ****VP22**** -GFP fusion proteins
AU Elliott, G; O'Hare, P*
CS Marie Curie Research Institute, The Chart, Oxted, Surrey RH8 0TL, UK
SO Gene Therapy [Gene Ther.]. Vol. 6, no. 1, pp. 149-151. Jan 1999.
ISSN: 0969-7128
DT Journal
LA English
SL English
OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 24 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
AN 2004373932 BIOENG
DN 4449109
TI Intercellular delivery of thymidine kinase prodrug activating enzyme by
the herpes simplex virus protein, ****VP22****
AU Dilber, MS; Phelan, A; Aints, A; Mohamed, AJ; Elliott, G; Edvard Smith,
CI; O'Hare, P*
CS Marie Curie Research Institute, The Chart, Oxted, Surrey, RH8 0TL, UK
SO Gene Therapy [Gene Ther.]. Vol. 6, no. 1, pp. 12-21. Jan 1999.
ISSN: 0969-7128
DT Journal
LA English
SL English
OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 25 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
AN 2004371099 BIOENG
DN 4424908
TI Transduction of full-length TAT fusion proteins into mammalian cells:
TAT-p27 super(Kip1) induces cell migration
AU Nagahara, H; Vocero-Akbani, AM; Snyder, EL; Ho, A; Latham, DG; Lissy, NA;
Becker-Hapak, M; Ezhevsky, SA; Dowdy, SF*
CS Howard Hughes Medical Institute and Division of Molecular Oncology, Depts
of Pathology and Medicine, Washington University School of Medicine, St.
Louis, MO 63110, USA, [mailto:dowdy@pathology.wustl.edu]
SO Nature Medicine [Nat. Med.]. Vol. 4, no. 12, pp. 1449-1452. Dec 1998.
ISSN: 1078-8956
DT Journal
LA English
OS Medical and Pharmaceutical Biotechnology Abstracts; Oncogenes & Growth
Factors Abstracts

L3 ANSWER 26 OF 199 BIOENG COPYRIGHT on STN 2004 CSA

AN 2004366843 BIOENG
 DN 4633200
 TI Protein therapy - delivery guaranteed
 AU Bayley, H
 CS Department of medical biochemistry and genetics at the Texas A&M Health Science Center, College Station, TX 77843-1114, USA, [mailto:bayley@tamu.edu]
 SO Nature Biotechnology [Nat. Biotechnol.]. Vol. 17, no. 11, pp. 1066-1067. Nov 1999.
 ISSN: 1087-0156
 DT Journal; General Review
 LA English
 OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 27 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
 AN 2004359291 BIOENG
 DN 4411655
 TI Intercellular trafficking of ***VP22*** -GFP fusion proteins is not observed in cultured mammalian cells
 AU Fang, B; Xu, B; Koch, P; Roth, JA
 CS Section of Molecular Oncology, Department of Thoracic and Cardiovascular Surgery, The University of Texas MD Anderson Cancer Center, Box 109, 1515 Holcombe Boulevard, Houston, TX 77030, USA
 SO Gene Therapy [Gene Ther.]. Vol. 5, no. 10, pp. 1420-1424. Oct 1998.
 ISSN: 0969-7128
 DT Journal
 LA English
 SL English
 OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 28 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
 AN 2004356753 BIOENG
 DN 4344192
 TI Intercellular delivery of functional p53 by the herpesvirus protein ***VP22***
 AU Phelan, A; Elliott, G; O'Hare, P*
 CS Marie Curie Research Institute, The Chart, Oxted, Surrey RH8 OTL, UK
 SO Nature Biotechnology [NAT. BIOTECHNOL.]. Vol. 16, no. 5, pp. 440-443. May 1998.
 ISSN: 1087-0156
 DT Journal
 LA English
 SL English
 OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 29 OF 199 BIOENG COPYRIGHT on STN 2004 CSA
 AN 2004356752 BIOENG
 DN 4344191
 TI Ferrying proteins to the other side [Drug delivery through the plasma membrane]
 AU Fernandez, Tania; Bayley, Hagan*
 CS Department of Medical Biochemistry and Genetics at the Texas A&M Health Science Center, College Station, TX 77843, USA
 SO Nature Biotechnology [NAT. BIOTECHNOL.]. Vol. 16, no. 5, pp. 418-420. May 1998.
 ISSN: 1087-0156
 DT Journal; General Review
 LA English
 OS Medical and Pharmaceutical Biotechnology Abstracts

L3 ANSWER 30 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
 AN 2000:277810 BIOSIS
 DN PREV200000277810
 TI Herpesvirus pre-(viral DNA replication) enveloped particles.
 AU Dargan, Derrick James [Inventor, Reprint author]; Patel, Arvind Hirabhai [Inventor]; Subak-Sharpe, John Herbert [Inventor]
 CS Glasgow, UK
 ASSIGNEE: Medical Research Council
 PI US 5994116 November 30, 1999
 SO Official Gazette of the United States Patent and Trademark Office Patents, (Nov. 30, 1999) Vol. 1228, No. 5. e-file.
 CODEN: OGUPE7. ISSN: 0098-1133.
 DT Patent
 LA English
 ED Entered STN: 6 Jul 2000

Last Updated on STN: 7 Jan 2002

L3 ANSWER 31 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 2000:792 BIOSIS
DN PREV200000000792
TI Direct protein transfer to terminally differentiated muscle cells.
AU Derer, Wolfgang; Easwaran, Hariharan P.; Knopf, Charles W.; Leonhardt,
Heinrich; Cardoso, M. Cristina [Reprint author]
CS Franz Volhard Clinic, Max Delbrueck Center, Wiltbergstrasse 50, D-13125,
Berlin, Germany
SO Journal of Molecular Medicine (Berlin), (Aug., 1999) Vol. 77, No. 8, pp.
609-613. print.
ISSN: 0946-2716.
DT Article
LA English
ED Entered STN: 23 Dec 1999
Last Updated on STN: 31 Dec 2001

L3 ANSWER 32 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1999:345893 BIOSIS
DN PREV199900345893
TI Modified ***VP22*** localizes to the cell nucleus during synchronized
herpes simplex virus type 1 infection.
AU Pomeranz, Lisa E.; Blaho, John A. [Reprint author]
CS Department of Microbiology, Mount Sinai School of Medicine, One Gustave L.
Levy Place, New York, NY, 10029-6574, USA
SO Journal of Virology, (Aug., 1999) Vol. 73, No. 8, pp. 6769-6781. print.
CODEN: JOVIAM. ISSN: 0022-538X.
DT Article
LA English
ED Entered STN: 24 Aug 1999
Last Updated on STN: 24 Aug 1999

L3 ANSWER 33 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1999:323440 BIOSIS
DN PREV199900323440
TI Identification of phosphorylation sites within the herpes simplex virus
tegument protein ***VP22***.
AU Elliott, Gillian [Reprint author]; O'Reilly, Dawn; O'Hare, Peter
CS Virus Assembly Group, Marie Curie Research Institute, The Chart, Oxted,
Surrey, RH1 0TL, UK
SO Journal of Virology, (July, 1999) Vol. 73, No. 7, pp. 6203-6206. print.
CODEN: JOVIAM. ISSN: 0022-538X.
DT Article
LA English
ED Entered STN: 24 Aug 1999
Last Updated on STN: 24 Aug 1999

L3 ANSWER 34 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1999:310764 BIOSIS
DN PREV199900310764
TI ***VP22*** translocates heterologous proteins into tissue culture
cells.
AU Bennett, Robert P. [Reprint author]; Dalby, Brian [Reprint author]; Guy,
Pamela M. [Reprint author]
CS Invitrogen Corporation, Carlsbad, CA, USA
SO FASEB Journal, (April 23, 1999) Vol. 13, No. 7, pp. A1555. print.
Meeting Info.: Annual Meeting of the American Societies for Experimental
Biology on Biochemistry and Molecular Biology 99. San Francisco,
California, USA. May 16-20, 1999. American Societies for Experimental
Biology.
CODEN: FAJOEC. ISSN: 0892-6638.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 17 Aug 1999
Last Updated on STN: 17 Aug 1999

L3 ANSWER 35 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1999:298221 BIOSIS
DN PREV199900298221

TI Preliminary structural characterization of ***vp22*** , a protein
 AU expressing novel intercellular trafficking activity.
 CS Kueltzo, L. [Reprint author]; O'Hare, P.; Middaugh, C. R. [Reprint author]
 SO Department of Pharmaceutical Chemistry, University of Kansas, Lawrence,
 KS, 66047, USA
 FASEB Journal, (April 23, 1999) Vol. 13, No. 7, pp. A1393. print.
 Meeting Info.: Annual Meeting of the American Societies for Experimental
 Biology on Biochemistry and Molecular Biology 99. San Francisco,
 California, USA. May 16-20, 1999. American Societies for Experimental
 Biology.
 CODEN: FAJOEC. ISSN: 0892-6638.
 DT Conference; (Meeting)
 LA Conference; Abstract; (Meeting Abstract)
 ED English
 Entered STN: 12 Aug 1999
 Last Updated on STN: 12 Aug 1999

L3 ANSWER 36 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1999:238923 BIOSIS
 DN PREV199900238923
 TI Live-cell analysis of a green fluorescent protein-tagged herpes simplex
 virus infection.
 AU Elliott, Gillian [Reprint author]; O'Hare, Peter
 CS Marie Curie Research Institute, The Chart, Oxted, Surrey, RH1 0TL, UK
 SO Journal of Virology, (May, 1999) Vol. 73, No. 5, pp. 4110-4119. print.
 CODEN: JOVIAM. ISSN: 0022-538X.
 DT Article
 LA English
 ED Entered STN: 17 Jun 1999
 Last Updated on STN: 17 Jun 1999

L3 ANSWER 37 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1998:490859 BIOSIS
 DN PREV199800490859
 TI Differences in the intracellular localization and fate of herpes simplex
 virus tegument proteins early in the infection of Vero cells.
 AU Morrison, Ewan E.; Steven, Alex J.; Wang, Yi-Fen; Meredith, David M.
 CS [Reprint author]
 Mol. Med. Unit, Univ. Leeds, St. James's Univ. Hosp., Beckett St., Leeds
 LS9 7TF, UK
 SO Journal of General Virology, (Oct., 1998) Vol. 79, No. 10, pp. 2517-2528.
 print.
 CODEN: JGVIAI. ISSN: 0022-1317.
 DT Article
 LA English
 ED Entered STN: 18 Nov 1998
 Last Updated on STN: 18 Nov 1998

L3 ANSWER 38 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1998:411472 BIOSIS
 DN PREV199800411472
 TI Phosphorylation of structural components promotes dissociation of the
 herpes simplex virus type 1 tegument.
 AU Morrison, Ewan E.; Wang, Yi-Fen; Meredith, David M. [Reprint author]
 CS Molecular Med. Unit, Univ. Leeds, Clinical Sci. Build., St. James Univ.
 Hosp., Leeds LS9 7TF, UK
 SO Journal of Virology, (Sept., 1998) Vol. 72, No. 9, pp. 7108-7114. print.
 CODEN: JOVIAM. ISSN: 0022-538X.
 DT Article
 LA English
 ED Entered STN: 21 Sep 1998
 Last Updated on STN: 21 Sep 1998

L3 ANSWER 39 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1998:405088 BIOSIS
 DN PREV199800405088
 TI Recognition of herpes simplex virus type 2 tegument proteins by CD4 T
 cells infiltrating human genital herpes lesions.
 AU Koelle, David M. [Reprint author]; Frank, Jeannine M.; Johnson, Matthew
 L.; Kwok, William W.
 CS Fred Hutchinson Cancer Res. Center, Room D3-100, 1100 Fairview Ave. North,
 P.O. Box 19024, Seattle, WA 98109, USA

SO Journal of Virology, (Sept., 1998) Vol. 72, No. 9, pp. 7476-7483. print.
 CODEN: JOVIAM. ISSN: 0022-538X.
 DT Article
 LA English
 ED Entered STN: 21 Sep 1998
 Last Updated on STN: 21 Sep 1998

L3 ANSWER 40 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1998:372651 BIOSIS
 DN PREV199800372651
 TI Herpes simplex virus type 1 tegument protein ***VP22*** induces the
 stabilization and hyperacetylation of microtubules.
 AU Elliott, Gillian [Reprint author]; O'Hare, Peter
 CS Marie Curie Res. Inst., Chart, Oxted, Surrey RH8 0TL, UK
 SO Journal of Virology, (Aug., 1998) Vol. 72, No. 8, pp. 6448-6455. print.
 CODEN: JOVIAM. ISSN: 0022-538X.
 DT Article
 LA English
 ED Entered STN: 27 Aug 1998
 Last Updated on STN: 27 Aug 1998

L3 ANSWER 41 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1997:290802 BIOSIS
 DN PREV199799590005
 TI Protein transport: The nonclassical ins and outs.
 AU Cleves, Ann E.
 CS Dep. Biochemistry Biophysics, Univ. California, San Francisco, CA
 94143-0534, USA
 SO Current Biology, (1997) Vol. 7, No. 5, pp. R318-R320.
 CODEN: CUBLE2. ISSN: 0960-9822.
 DT Article
 LA English
 ED Entered STN: 9 Jul 1997
 Last Updated on STN: 9 Jul 1997

L3 ANSWER 42 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1997:118416 BIOSIS
 DN PREV199799417619
 TI The abundance of the herpes simplex virus type 1 UL37 tegument protein in
 virus particles in closely controlled.
 AU McLauchlan, John
 CS MRC Virol. Unit, Church st., Glasgow G11 5JR, UK
 SO Journal of General Virology, (1997) Vol. 78, No. 1, pp. 189-194.
 CODEN: JGVIAJ. ISSN: 0022-1317.
 DT Article
 LA English
 ED Entered STN: 10 Mar 1997
 Last Updated on STN: 10 Mar 1997

L3 ANSWER 43 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1997:107423 BIOSIS
 DN PREV199799406626
 TI Intercellular trafficking and protein delivery by a herpesvirus structural
 protein.
 AU Elliott, Gillian; O'Hare, Peter
 CS Marie Curie Res. Inst., The Chart, Oxted, Surrey RH8 0TL, UK
 SO Cell, (1997) Vol. 88, No. 2, pp. 223-233.
 CODEN: CELLB5. ISSN: 0092-8674.
 DT Article
 LA English
 ED Entered STN: 10 Mar 1997
 Last Updated on STN: 10 Mar 1997

L3 ANSWER 44 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1997:30445 BIOSIS
 DN PREV199799336848
 TI Phosphorylation of the herpes simplex virus type 1 tegument protein
 VP22
 AU Elliott, Gillian [Reprint author]; O'Reilly, Dawn; O'Hare, Peter
 CS Marie Curie Res. Inst., Chart, Oxted, Surrey RH8 0TL, UK
 SO Virology, (1996) Vol. 226, No. 1, pp. 140-145.

DT CODEN: VIRLAX. ISSN: 0042-6822.
 LA Article
 ED English
 Entered STN: 28 Jan 1997
 Last Updated on STN: 25 Mar 1997

L3 ANSWER 45 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1996:341870 BIOSIS
 DN PREV199699064226
 TI Overexpression of the herpes simplex virus type 1 tegument protein
 VP22 increases its incorporation into virus particles.
 AU Leslie, J.; Rixon, F. J.; McLauchlan, J. [Reprint author]
 CS MRC Virology Unit, Inst. Virology, Church Street, Glasgow G11 5JR, UK
 SO Virology, (1996) Vol. 220, No. 1, pp. 60-68.
 CODEN: VIRLAX. ISSN: 0042-6822.
 DT Article
 LA English
 ED Entered STN: 26 Jul 1996
 Last Updated on STN: 26 Jul 1996

L3 ANSWER 46 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1996:30491 BIOSIS
 DN PREV199698602626
 TI VP16 interacts via its activation domain with ***VP22***, a tegument
 protein of herpes simplex virus, and is relocated to a novel
 macromolecular assembly in coexpressing cells.
 AU Elliott, Gillian [Reprint author]; Mouzakis, Gerasimos; O'Hare, Peter
 CS Marie Curie Res. Inst., Chart, Oxted, Surrey RH8 0TL, UK
 SO Journal of Virology, (1995) Vol. 69, No. 12, pp. 7932-7941.
 CODEN: JOVIAM. ISSN: 0022-538X.
 DT Article
 LA English
 ED Entered STN: 12 Jan 1996
 Last Updated on STN: 12 Jan 1996

L3 ANSWER 47 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1995:364073 BIOSIS
 DN PREV199598378373
 TI PREPS: Herpes simplex virus type 1-specific particles produced by infected
 cells when viral DNA replication is blocked.
 AU Dargan, D. J. [Reprint author]; Patel, A. H.; Subak-sharpe, J. H.
 CS Med. Res. Council, Virol Unit, Univ. Glasgow, Church St., Glasgow G11 5JR,
 UK
 SO Journal of Virology, (1995) Vol. 69, No. 8, pp. 4924-4932.
 CODEN: JOVIAM. ISSN: 0022-538X.
 DT Article
 LA English
 ED Entered STN: 30 Aug 1995
 Last Updated on STN: 30 Aug 1995

L3 ANSWER 48 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1994:272819 BIOSIS
 DN PREV199497285819
 TI Detection and identification of Vibrio parahaemolyticus in fecal samples
 of outbreak patients by in vitro amplification of thermostable direct
 haemolysin gene fragment.
 AU Lee, Chiayin [Reprint author]; Pan, Shwu-Fen; Lee, Yeong-Sheng; Lee,
 Chih-Lung
 CS Graduate Inst. Agric. Chem., Natl. Taiwan Univ., Taipei, Taiwan
 SO Journal of the Chinese Agricultural Chemical Society, (1994) Vol. 32, No.
 1, pp. 103-112.
 CODEN: CKNHAA. ISSN: 0578-1736.
 DT Article
 LA Chinese
 ED Entered STN: 24 Jun 1994
 Last Updated on STN: 24 Jun 1994

L3 ANSWER 49 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN
 AN 1993:235606 BIOSIS
 DN PREV199395126781
 TI A mutant of herpes simplex virus type 1 in which the UL13 protein kinase

gene is disrupted.

AU Coulter, L. J.; Moss, H. W. M.; Lang, J.; McGeoch, D. J. [Reprint author]
CS Inst. Virology, Univ. Glasgow, Church Street, Glasgow G11 5JR, UK
SO Journal of General Virology, (1993) Vol. 74, No. 3, pp. 387-395.
CODEN: JGVIAI. ISSN: 0022-1317.
DT Article
LA English
ED Entered STN: 7 May 1993
Last Updated on STN: 7 May 1993

L3 ANSWER 50 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1992:234456 BIOSIS
DN PREV199293122481; BA93:122481
TI THE HERPES SIMPLEX VIRUS TYPE 1 TEGUMENT PROTEIN ***VP22*** IS ENCODED
BY GENE UL49.
AU ELLIOTT G D [Reprint author]; MEREDITH D M
CS DEP MICROBIOL, UNIV OF LEEDS, LEEDS LS2 9JT, UK
SO Journal of General Virology, (1992) Vol. 73, No. 3, pp. 723-726.
CODEN: JGVIAI. ISSN: 0022-1317.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 10 May 1992
Last Updated on STN: 10 May 1992

L3 ANSWER 51 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1992:56110 BIOSIS
DN PREV199293036085; BA93:36085
TI POST-TRANSLATIONAL MODIFICATION OF THE TEGUMENT PROTEINS VP13 AND VP14 OF
HERPES SIMPLEX VIRUS TYPE 1 BY GLYCOSYLATION AND PHOSPHORYLATION.
AU MEREDITH D M [Reprint author]; LINDSAY J A; HALLIBURTON I W; WHITTAKER G R
CS DEP MICROBIOL, UNIV LEEDS, LEEDS LS2 9JT, UK
SO Journal of General Virology, (1991) Vol. 72, No. 11, pp. 2771-2776.
CODEN: JGVIAI. ISSN: 0022-1317.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 13 Jan 1992
Last Updated on STN: 13 Jan 1992

L3 ANSWER 52 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1990:139691 BIOSIS
DN PREV199089078502; BA89:78502
TI THREE-DIMENSIONAL STRUCTURES OF MATURABLE AND ABORTIVE CAPSIDS OF EQUINE
HERPESVIRUS 1 FROM CRYOELECTRON MICROSCOPY.
AU BAKER T S [Reprint author]; NEWCOMB W W; BOOY F P; BROWN J C; STEVEN A C
CS LAB PHYSIOL BIOL, NATL INST ARTHRITIS MUSCULOSKELETAL SKIN DIS, BUILDING
6, ROOM 114, BETHESDA, MD 20892, USA
SO Journal of Virology, (1990) Vol. 64, No. 2, pp. 563-573.
CODEN: JOVIAM. ISSN: 0022-538X.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 13 Mar 1990
Last Updated on STN: 13 Mar 1990

L3 ANSWER 53 OF 199 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
AN 1980:179973 BIOSIS
DN PREV198069054969; BA69:54969
TI VIRUS SPECIFIC BASIC PHOSPHO PROTEINS ASSOCIATED WITH HERPES SIMPLEX VIRUS
TYPE 1 PARTICLES AND THE CHROMATIN OF HERPES SIMPLEX VIRUS TYPE 1 INFECTED
CELLS.
AU KNOPF K-W [Reprint author]; KAERNER H C
CS GER CANCER RES CENT, INST VIRUS RES, 6900 HEIDELBERG, W GER
SO Journal of General Virology, (1980) Vol. 46, No. 2, pp. 405-414.
CODEN: JGVIAI. ISSN: 0022-1317.
DT Article
FS BA
LA ENGLISH

L3 ANSWER 54 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
AN 1999-05246 BIOTECHDS

TI Intercellular trafficking of ***VP22*** -GFP fusion proteins;
 VP22 -green fluorescent protein fusion protein with the
 ability to mediate intercellular protein transport
 AU Elliot G; *O'Hare P
 CS Marie-Curie-Res.Inst.Oxtd
 LO Marie Curie Research Institute, The Chart, Oxtd, Surrey RH8 0TL, UK.
 SO Gene Ther.; (***1999***) 6, 1, 149-51
 CODEN: GETHEC ISSN: 0969-7128
 DT Journal
 LA English

L3 ANSWER 55 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1999-02756 BIOTECHDS
 TI Subunit vaccine containing ***VP22*** polypeptide of herpes simplex
 virus;
 herpes simplex virus recombinant ***VP22*** protein preparation,
 virus vector-mediated gene transfer and expression in host cell, used
 for infection recombinant vaccine or nucleic acid vaccine
 AU Burke R L; Tigges M A
 PA Chiron
 LO Emeryville, CA, USA.
 PI WO 9855145 ***10 Dec 1998***
 AI WO 1998-US10664 26 May 1998
 PRAI US 1997-47359 2 Jun 1997
 DT Patent
 LA English
 OS WPI: 1999-059878 [05]

L3 ANSWER 56 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1999-01646 BIOTECHDS
 TI Using baculo virus to deliver nucleic acid to hepatocytes;
 thymidine-kinase gene transfer, antisense and ribozyme for virus
 infection and liver cancer gene therapy
 AU McGarvey M J; Thomas H C
 PA Imperial-Coll.Innovations
 LO London, UK.
 PI WO 9848842 ***5 Nov 1998***
 AI WO 1998-GB1249 29 Apr 1998
 PRAI GB 1997-8698 29 Apr 1997
 DT Patent
 LA English
 OS WPI: 1999-009390 [01]

L3 ANSWER 57 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1998-11220 BIOTECHDS
 TI Use of the microtubule binding function and transport properties of
 herpes virus ***VP22*** protein;
 to study and manipulate mammal cell structure, growth, division and
 death in vitro and in vivo
 AU Elliot G D
 PA Phogen
 LO Cambridge, UK.
 PI WO 9842742 ***1 Oct 1998***
 AI WO 1998-GB873 23 Mar 1998
 PRAI GB 1997-5903 21 Mar 1997
 DT Patent
 LA English
 OS WPI: 1998-531948 [45]

L3 ANSWER 58 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1998-09556 BIOTECHDS
 TI New coupled or fusion polypeptides;
 herpes virus ***VP22*** protein and p53 fusion protein preparation
 by plasmid p49532p+10 vector expression in microorganism or mammal
 cell, used for disease therapy or gene therapy, etc.
 AU O'Hare P F J; Elliott G D
 PA Marie-Curie-Cancer-Care
 LO London, UK.
 PI WO 9832866 ***30 Jul 1998***
 AI WO 1998-GB207 23 Jan 1998
 PRAI GB 1997-16398 1 Aug 1997; GB 1997-1363 23 Jan 1997
 DT Patent
 LA English
 OS WPI: 1998-427962 [36]

L3 ANSWER 59 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN

AN 1998-08690 BIOTECHDS
 TI Ferrying proteins to the other side;
 membrane translocating protein fusion protein for potential use in
 gene therapy or as recombinant vaccine
 AU Fernandez T; Bayley H
 CS Univ.Texas-A+M
 LO Department of Medical Biochemistry and Genetics, Texas A+M Health Science
 Center, College Station, TX 77843, USA.
 Email: bayley@tamu.edu
 SO Nat.Biotechnol.; (***1998***) 16, 5, 418-20
 CODEN: NABIF ISSN: 1087-0156
 DT Journal
 LA English

L3 ANSWER 60 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1998-04880 BIOTECHDS
 TI New antiviral agent against herpes, disrupts binding of ***VP22*** to
 VP16 or gB;
 virucide causing disruption of herpes simplex virus type-1 protein
 association
 AU McLaughlan J; McGeoch D J; Hope R G; Rixon H W M
 PA Med.Res.Counc.
 LO London, UK.
 PI WO 9804708 ***5 Feb 1998***
 AI WO 1997-GB2036 28 Jul 1997
 PRAI GB 1996-15726 26 Jul 1996
 DT Patent
 LA English
 OS WPI: 1998-130696 [12]

L3 ANSWER 61 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1997-06513 BIOTECHDS
 TI Use of herpes simplex virus type-1 major tegument portion, ***VP22***
 ;
 as a transport protein in a fusion protein, for tissue-specific gene
 expression, using a virus vector, lipofection, transfection or
 microinjection, in e.g. gene therapy
 AU O'Hare P F J; Elliott G D
 PA O'Hare P F J; Elliott G D
 LO Oxted, UK.
 PI WO 9705265 ***13 Feb 1997***
 AI WO 1996-GB1831 25 Jul 1996
 PRAI GB 1996-1570 26 Jan 1996; GB 1995-15568 28 Jul 1995
 DT Patent
 LA English
 OS WPI: 1997-145701 [13]

L3 ANSWER 62 OF 199 BIOTECHDS COPYRIGHT 2004 THE THOMSON CORP. on STN
 AN 1985-05303 BIOTECHDS
 TI Construction of a shuttle vector which replicates stably in Vibrio
 parahemolyticus and Escherichia coli;
 plasmid characterization (conference paper)
 AU Ando T; Arai T
 LO Department of Microbiology, Keio University School of Medicine Tokyo,
 Japan.
 SO Transferable Antibiot.Resist.; (***1984***) 5 Meet., 347-52
 DT Journal
 LA English

L3 ANSWER 63 OF 199 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
 AN 1999:29479978 BIOTECHNO
 TI Can ***VP22*** resurrect gene therapy?
 AU Luft F.C.
 CS F.C. Luft, Franz-Volhard-Klinik, Humboldt University of Berlin,
 Wiltbergstrasse 50, D-13125 Berlin-Buch, Germany.
 E-mail: luft@fvk-berlin.de
 SO Journal of Molecular Medicine, (***1999***), 77/8 (575-576), 6
 reference(s)
 CODEN: JMLME8 ISSN: 0946-2716
 DT Journal; (Short Survey)
 CY Germany, Federal Republic of
 LA English

L3 ANSWER 64 OF 199 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
 AN 1999:29043687 BIOTECHNO
 TI Catch ***VP22*** : The hitch-hiker's ride to gene therapy?

AU Murphy A.L.; Murphy S.J.
SO Gene Therapy, (***1999***), 6/1 (4-5), 7 reference(s)
CODEN: GETHEC ISSN: 0969-7128
DT Journal; (Short Survey)
CY United Kingdom
LA English

L3 ANSWER 65 OF 199 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 1998:29043337 BIOTECHNO
TI New strategies for the genetic therapy of primary liver carcinoma
AU Lauer U.; Spiegel M.; Bitzer M.; Wybranietz W.A.; Gross Ch.D.; Prinz F.;
Graepler F.; Neubert W.J.; Gregor M.
CS Dr. U. Lauer, Abteilung Innere Medizin I, Med. Universitätsklinik
Tubingen, Otfried-Muller-Str. 10, D-72076 Tubingen, Germany.
SO Minimally Invasive Therapy and Allied Technologies, (***1998***), 7/6
(567-571), 26 reference(s)
CODEN: MITAFI ISSN: 1364-5706
DT Journal; Article
CY United Kingdom
LA English
SL English

L3 ANSWER 66 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:753364 CAPLUS
DN 131:347510
TI Gene therapy vectors utilizing recombination and their use in antitumor
therapy
IN Margison, Geoffrey Paul; Marples, Brian; Scott, Simon; Hendry, Jolyon
PA Cancer Research Campaign Technology Limited, UK
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9960142	A2	19991125	WO 1999-GB1362	19990517 <--
	WO 9960142	A3	20000713		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2374248	AA	19991125	CA 1999-2374248	19990517 <--
	AU 9939375	A1	19991206	AU 1999-39375	19990517 <--
	AU 763714	B2	20030731		
	EP 1078091	A2	20010228	EP 1999-922263	19990517
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI			
	NZ 508671	A	20030530	NZ 1999-508671	19990517
PRAI	GB 1998-10423	A	19980515		
	WO 1999-GB1362	W	19990517		

L3 ANSWER 67 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:390423 CAPLUS
DN 131:39724
TI Cytotoxin fusion proteins for use in killing of cells infected by
pathogens
IN Dowdy, Steven F.
PA Washington University, USA
SO PCT Int. Appl., 123 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9929721	A1	19990617	WO 1998-US26358	19981210 <--
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,			

UA, UG, US, UZ, VN, YU, ZW
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2314267 AA 19990617 CA 1998-2314267 19981210 <--
 AU 9918182 A1 19990628 AU 1999-18182 19981210 <--
 EP 1037911 A1 20000927 EP 1998-963079 19981210
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 US 6221355 B1 20010424 US 1998-208966 19981210
 JP 2002505077 T2 20020219 JP 2000-524312 19981210
 PRAI US 1997-69012P P 19971210
 US 1998-82402P P 19980420
 WO 1998-US26358 W 19981210
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 68 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:166641 CAPLUS
 DN 130:205911
 TI Fusion proteins of transcriptional activators carrying peptides promoting
 cell uptake and a regulated expression system using them
 IN Dowdy, Steven F.; Jessee, Joel A.
 PA Washington University, USA
 SO PCT Int. Appl., 34 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9910376	A1	19990304	WO 1998-US16887	19980814 <--
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1005486	A1	20000607	EP 1998-939402	19980814
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001513987	T2	20010911	JP 2000-507702	19980814
US 2003040038	A1	20030227	US 1998-134793	19980814
US 2004146889	A1	20040729	US 2003-680576	20031006
PRAI US 1997-56713P	P	19970822		
US 1998-134793	A1	19980814		
WO 1998-US16887	W	19980814		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 69 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:621324 CAPLUS
 DN 129:240848
 TI Increasing the efficiency of uptake of transforming DNA complexes with
 polycations using peptides
 IN Hawley-Nelson, Pamela; Lan, Jianqing; Shih, Pojen; Jessee, Joel A.;
 Ciccarone, Valentina C.; Evans, Krista L.; Schifferli, Kevin P.; Gebeyehu,
 Guililat
 PA Life Technologies, Inc., USA
 SO PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9840502	A1	19980917	WO 1998-US5232	19980316 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6051429	A	20000418	US 1997-818200	19970314
AU 9865622	A1	19980929	AU 1998-65622	19980316 <--
EP 1007699	A1	20000614	EP 1998-911737	19980316
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

	IE, FI			
JP	2001517939	T2	20011009	JP 1998-539899
PRAI	US 1997-818200	A	19970314	19980316
	US 1995-477354	B2	19950607	
	US 1996-658130	A2	19960604	
	WO 1998-US5232	W	19980316	

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L3 ANSWER 70 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:175378 CAPLUS
TI ***VP22*** : A new movement in protein transport
AU Marshall, Andrew; Castellino, Alexander
CS Dep. Cell Biol. Anatomy, Cornell Univ. Med. Coll., New York, NY, 10021, USA
SO Nature Biotechnology (***1997***), 15(3), 205
CODEN: NABIF9; ISSN: 1087-0156
PB Nature Publishing Co.
DT Journal; News Announcement
LA English
- L3 ANSWER 71 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1994:571796 CAPLUS
DN 121:171796
TI Nucleotide sequence of a 55 kbp region from the right end of the genome of a pathogenic African swine fever virus isolate (malawi LIL20/1)
AU Dixon, Linda K.; Twigg, Stephen R. F.; Baylis, Sally A.; Vydelingum, Soopayah; Bristow, Christine; Hammond, Jef M.; Smith, Geoffrey L.
CS AFRC Inst. Animal Health, Pirbright Lab., Woking, GU24 0NF, UK
SO Journal of General Virology (***1994***), 75(7), 1655-84
CODEN: JGVIAV; ISSN: 0022-1317
DT Journal
LA English
- L3 ANSWER 72 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1994:320903 CAPLUS
DN 120:320903
TI Analysis of antibody responses to predominant linear epitopes of Theiler's murine encephalomyelitis virus
AU Inoue, Atsushi; Choe, Yong Kyung; Kim, Byung S.
CS Med. Sch., Northwest. Univ., Chicago, IL, 60611, USA
SO Journal of Virology (***1994***), 68(5), 3324-33
CODEN: JOVIAM; ISSN: 0022-538X
DT Journal
LA English
- L3 ANSWER 73 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:445358 CAPLUS
DN 115:45358
TI Purification of the structural proteins of herpes simplex virus type 1 by reversed-phase high-performance liquid chromatography
AU Whittaker, G. R.; Meredith, D. M.
CS Dep. Microbiol., Univ. Leeds, Leeds, LS2 9JT, UK
SO Archives of Virology (***1990***), 114(3-4), 271-6
CODEN: ARVIDF; ISSN: 0304-8608
DT Journal
LA English
- L3 ANSWER 74 OF 199 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1983:403337 CAPLUS
DN 99:3337
TI Important role of protease of baculovirus inclusion bodies in the infection process
AU Kozlov, E. A.; Levitina, T. L.; Gusak, N. M.; Unguryanu, N.; Serebryanyi, S. B.
CS Inst. Mol. Biol. Genet., Kiev, USSR
SO Molekulyarnaya Biologiya (Kiev) (***1982***), 31, 32-5
CODEN: MLKBAQ; ISSN: 0375-9415
DT Journal
LA Russian
- L3 ANSWER 75 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
AN 1999(06):5040 CEABA-VTB FS B
DN CEABA: 1999:3212891
TI Phogen s herpes protein technology boosts anticancer gene therapy
CS Phogen, Cambridge, UK

SO Pharm. Bus. News (***1999***) 15(334), p.26
 CODEN: PBNEEH ISSN: 0956-0661
 DT Journal
 LA English

L3 ANSWER 76 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1998(07):0028 CEABA-VTB FS B
 DN CEABA: 1998:5225896
 TI Invitrogen gets cell transport molecule from Phogen
 CS Invitrogen, USA
 SO Pharm. Bus. News (***1998***) 14(316), p.26
 CODEN: PBNEEH ISSN: 0956-0661
 DT Journal
 LA English

L3 ANSWER 77 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1998(06):5537 CEABA-VTB FS B
 DN CEABA: 1998:2431892
 TI Cancer gene therapy: guardian gene restored
 AU Newell, J. (UK)
 SO Chem. Br. (***1998***) 34(8), p.19
 CODEN: CHMBAY ISSN: 0009-3106
 DT Journal
 LA English

L3 ANSWER 78 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1997(07):5539 CEABA-VTB FS B
 DN CEABA: 1997:7484891
 TI Could cold sores be gene therapy s best friend?
 AU Coghlan, A.
 SO New Sci. (***1997***) 153(2069), p.25
 CODEN: NWSCAL ISSN: 0028-6664
 DT Journal
 LA English

L3 ANSWER 79 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1997(06):8691 CEABA-VTB FS B
 DN CEABA: 1997:3712899
 TI Hitchhiker s guide to gene therapy
 CS Phogen, UK
 SO Chem. Ind. (London) (***1997***) (6), p.202
 CODEN: CHINAG ISSN: 0009-3068
 DT Journal
 LA English

L3 ANSWER 80 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1997(06):7870 CEABA-VTB FS B
 DN CEABA: 1997:3336891
 TI Phogen to focus on herpes drug delivery
 CS Phogen, Cambridge, UK
 SO Biotechnol. Newswatch (***1997***), p.14
 ISSN: 0275-3685
 DT Journal
 LA English

L3 ANSWER 81 OF 199 CEABA-VTB COPYRIGHT 2004 DECHEMA on STN
 AN 1997(06):4294 CEABA-VTB FS B
 DN CEABA: 1997:1558891
 TI Drug delivery by herpes virus protein
 SO Lab. News (London) (***1997***), p.5
 ISSN: 0266-7169
 DT Journal
 LA English

L3 ANSWER 82 OF 199 CIN COPYRIGHT 2004 ACS on STN
 AN 28(23):23048P CIN
 TI Deals
 SO BioCentury, 24 May 1999 (19990524), 7(30, Pt. 2), p. B3. ISSN: 1097-7201;
 CODEN: BICEFS.
 LA English

L3 ANSWER 83 OF 199 CIN COPYRIGHT 2004 ACS on STN
 AN 28(5):4140W CIN
 TI Other research news
 SO BioCentury, 18 Jan 1999 (19990118), 7(5, Pt. 2), p. B16. ISSN: 1097-7201;
 CODEN: BICEFS.

LA English

L3 ANSWER 84 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 27(27):30609E CIN
TI Phogen's ***VP22*** tech piggy-backs proteins into target cells
SO Eur. Biotechnol. NewsL., 21 May 1998 (19980521), 267, p. 12. ISSN: 0765-2046; CODEN: EBNWEI.
LA English

L3 ANSWER 85 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 27(20):23072W CIN
TI Other research news
SO BioCentury, 4 May 1998 (19980504), 6(39, Pt. 2), p. B13. ISSN: 1097-7201; CODEN: BICEFS.
LA English

L3 ANSWER 86 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 27(20):22759P CIN
TI Sales & marketing
SO BioCentury, 4 May 1998 (19980504), 6(39, Pt. 2), p. B6. ISSN: 1097-7201; CODEN: BICEFS.
LA English

L3 ANSWER 87 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 26(18):20632X CIN
TI Phogen JV explores potential of herpesvirus drug delivery
SO Genet. Eng. News, 15 Mar 1997 (970315), 17(6), p. 4. ISSN: 0270-6377; CODEN: GENNDX.
LA English

L3 ANSWER 88 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 26(14):16215W CIN
TI Hitchhiker's guide to gene therapy
SO Chem. Ind. (London), 17 Mar 1997 (970317), (6), p. 202. ISSN: 0009-3068; CODEN: CHINAG.
LA English

L3 ANSWER 89 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 26(13):15349F CIN
TI Cantab joins forces with MCCC to form biotech company
SO Pharm. Bus. News, 12 Mar 1997 (970312), 13(287), p. 18. ISSN: 0956-0661; CODEN: PBNEEH.
LA English

L3 ANSWER 90 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 26(13):15271Z CIN
TI Cantab forms joint venture to develop protein for drug and gene delivery
SO Biotechnol. News, 6 Mar 1997 (970306), 17(6), p. 4. ISSN: 0273-3226; CODEN: BINWEY.
LA English

L3 ANSWER 91 OF 199 CIN COPYRIGHT 2004 ACS on STN
AN 26(12):13742E CIN
TI ***VP22*** : a new movement in protein transport
SO Nat. Biotechnol., Mar 1997 (970300), 15(3), p. 205. ISSN: 1087-0156; CODEN: NABIF9.
LA English

L3 ANSWER 92 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAY78333 peptide DGENE
TI New membrane permanent peptide complexes for medical imaging, diagnostics and therapy -
IN Piwnica-worms D
PA (UNIW) UNIV WASHINGTON.
PI ***WO 9967284 A2 19991229 65p***
AI WO 1999-US13660 19990618
PRAI US 1998-90087 19980620
DT Patent
LA English
OS 2000-160576 [14]
DESC Herpes simplex virus ***VP22*** protein SEQ ID NO:5.

L3 ANSWER 93 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW67755 Protein DGENE
TI Subunit vaccine containing ***VP22*** polypeptide of herpes simplex virus - and vaccines containing vector encoding this polypeptide, induce

IN a cytotoxic T cell response
PA Burke R L; Tigges M A
(CHIR) CHIRON CORP.
PI ***WO 9855145 A1 19981210
AI WO 1998-US10664 19980526
PRAI US 1997-47359 19970602
DT Patent
LA English
OS 1999-059878 [05]
CR N-PSDB: AAV81471
DESC HSV-2 ***VP22*** protein.

94p***

L3 ANSWER 94 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW95100 peptide DGENE
TI Fusion and chimaeric proteins including cyclin-dependent kinase binding motif - used for regulation of cell proliferation and differentiation, for treatment of, e.g. vascular injury, cancers, fibrosis and neurodegeneration

IN Beach D H; Gyuris J; Lamphere L
PA (MITO-N) MITOTIX INC.
PI ***WO 9906540 A2 19990211
AI WO 1998-US15759 19980729
PRAI US 1997-902572 19970729
DT Patent
LA English
OS 1999-153770 [13]
CR N-PSDB: AAX26228
DESC HIV-1 ***VP22*** polypeptide C-terminal domain.

88p***

L3 ANSWER 95 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW95099 Protein DGENE
TI Fusion and chimaeric proteins including cyclin-dependent kinase binding motif - used for regulation of cell proliferation and differentiation, for treatment of, e.g. vascular injury, cancers, fibrosis and neurodegeneration

IN Beach D H; Gyuris J; Lamphere L
PA (MITO-N) MITOTIX INC.
PI ***WO 9906540 A2 19990211
AI WO 1998-US15759 19980729
PRAI US 1997-902572 19970729
DT Patent
LA English
OS 1999-153770 [13]
CR N-PSDB: AAX26227
DESC HIV-1 ***VP22*** polypeptide.

88p***

L3 ANSWER 96 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAY27404 Protein DGENE
TI New prodrug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors or inflammation -
IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
Mitrophanous K

PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
PI ***WO 9945126 A2 19990910
AI WO 1999-GB672 19990305
PRAI GB 1998-4841 19980306
GB 1998-18103 19980819
GB 1999-2081 19990129
DT Patent
LA English
OS 1999-540852 [45]
CR N-PSDB: AAZ07807
DESC HSV-1 tegument protein ***vp22*** .

149p***

L3 ANSWER 97 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAY42292 Protein DGENE
TI New prodrug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors -
IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
Mitrophanous K

PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
PI ***WO 9945127 A2 19990910
AI WO 1999-GB674 19990305
PRAI GB 1998-4841 19980306
GB 1998-18103 19980819
GB 1999-2081 19990129

187p***

DT Patent
LA English
OS 1999-551046 [46]
CR N-PSDB: AAZ19784
DESC Herpes simplex virus type 1 (HSV-1) ***VP22*** tegument protein.

L3 ANSWER 98 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47199 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide D.

L3 ANSWER 99 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47198 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide C.

L3 ANSWER 100 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47197 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide B.

L3 ANSWER 101 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47196 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide A.

L3 ANSWER 102 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47195 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726

DT Patent
LA English
OS 1998-130696 [12]
DESC Herpes simplex virus truncated tegument protein ***VP22*** .

L3 ANSWER 103 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47194 Protein DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
CR N-PSDB: AAV17085
DESC Herpes simplex virus tegument protein ***VP22*** .

L3 ANSWER 104 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47205 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide J.

L3 ANSWER 105 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47204 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide I.

L3 ANSWER 106 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47203 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide H.

L3 ANSWER 107 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47202 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726

DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide G.

L3 ANSWER 108 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47201 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide F.

L3 ANSWER 109 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW47200 peptide DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB -
useful for treating infections caused by herpes simplex, e.g. cold sores
and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
DESC HSV truncated tegument protein ***VP22*** derived peptide E.

L3 ANSWER 110 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW69718 protein DGENE
TI Coupled or fusion polypeptides, for transporting proteins into cells -
contain an amino acid sequence with the transport function of herpesviral
VP22 protein
IN Elliott G D; O'Hare P F J
PA (CURI-N) CURIE CANCER CARE MARIE.
PI ***WO 9832866 A1 19980730 39p***
AI WO 1998-GB207 19980123
PRAI GB 1997-16398 19970801
GB 1997-1363 19970123
DT Patent
LA English
OS 1998-427962 [36]
DESC Human p53 used in coupled proteins and fusion proteins.

L3 ANSWER 111 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAW69717 protein DGENE
TI Coupled or fusion polypeptides, for transporting proteins into cells -
contain an amino acid sequence with the transport function of herpesviral
VP22 protein
IN Elliott G D; O'Hare P F J
PA (CURI-N) CURIE CANCER CARE MARIE.
PI ***WO 9832866 A1 19980730 39p***
AI WO 1998-GB207 19980123
PRAI GB 1997-16398 19970801
GB 1997-1363 19970123
DT Patent
LA English
OS 1998-427962 [36]
DESC Herpesviral ***VP22*** protein used in coupled proteins and fusion
proteins.

L3 ANSWER 112 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV81473 DNA DGENE
TI Subunit vaccine containing ***VP22*** polypeptide of herpes simplex
virus - and vaccines containing vector encoding this polypeptide, induce
a cytotoxic T cell response
IN Burke R L; Tigges M A
PA (CHIR) CHIRON CORP.
PI ***WO 9855145 A1 19981210 94p***

AI WO 1998-US10664 19980526
PRAI US 1997-47359 19970602
DT Patent
LA English
OS 1999-059878 [05]
DESC Primer GPUL49 3' for HSV-2 ***VP22*** gene.

L3 ANSWER 113 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV81472 DNA DGENE
TI Subunit vaccine containing ***VP22*** polypeptide of herpes simplex virus - and vaccines containing vector encoding this polypeptide, induce a cytotoxic T cell response
IN Burke R L; Tigges M A
PA (CHIR) CHIRON CORP.
PI ***WO 9855145 A1 19981210 94p***
AI WO 1998-US10664 19980526
PRAI US 1997-47359 19970602
DT Patent
LA English
OS 1999-059878 [05]
DESC Primer GPUL49 5' for HSV-2 ***VP22*** gene.

L3 ANSWER 114 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV81471 DNA DGENE
TI Subunit vaccine containing ***VP22*** polypeptide of herpes simplex virus - and vaccines containing vector encoding this polypeptide, induce a cytotoxic T cell response
IN Burke R L; Tigges M A
PA (CHIR) CHIRON CORP.
PI ***WO 9855145 A1 19981210 94p***
AI WO 1998-US10664 19980526
PRAI US 1997-47359 19970602
DT Patent
LA English
OS 1999-059878 [05]
CR P-PSDB: AAW67755
DESC HSV-2 ***VP22*** gene.

L3 ANSWER 115 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAX26227 DNA DGENE
TI Fusion and chimaeric proteins including cyclin-dependent kinase binding motif - used for regulation of cell proliferation and differentiation, for treatment of, e.g. vascular injury, cancers, fibrosis and neurodegeneration
IN Beach D H; Gyuris J; Lamphere L
PA (MITO-N) MITOTIX INC.
PI ***WO 9906540 A2 19990211 88p***
AI WO 1998-US15759 19980729
PRAI US 1997-902572 19970729
DT Patent
LA English
OS 1999-153770 [13]
CR P-PSDB: AAW95099
DESC HIV-1 ***VP22*** polypeptide encoding DNA.

L3 ANSWER 116 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAX26228 DNA DGENE
TI Fusion and chimaeric proteins including cyclin-dependent kinase binding motif - used for regulation of cell proliferation and differentiation, for treatment of, e.g. vascular injury, cancers, fibrosis and neurodegeneration
IN Beach D H; Gyuris J; Lamphere L
PA (MITO-N) MITOTIX INC.
PI ***WO 9906540 A2 19990211 88p***
AI WO 1998-US15759 19980729
PRAI US 1997-902572 19970729
DT Patent
LA English
OS 1999-153770 [13]
CR P-PSDB: AAW95100
DESC HIV-1 ***VP22*** polypeptide C-terminal domain encoding DNA.

L3 ANSWER 117 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAZ07807 DNA DGENE
TI New prodrug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors or inflammation -

IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
 Mitrophanous K
 PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
 PI ***WO 9945126 A2 19990910 149p***
 AI WO 1999-GB672 19990305
 PRAI GB 1998-4841 19980306
 GB 1998-18103 19980819
 GB 1999-2081 19990129
 DT Patent
 LA English
 OS 1999-540852 [45]
 CR P-PSDB: AAY27404
 DESC HSV-1 tegument protein ***VP22*** encoding DNA.

L3 ANSWER 118 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAZ07770 DNA DGENE
 TI New prodrug activating agent targeted to selected cells or tissues,
 particularly hypoxic cells, for treating e.g. tumors or inflammation -
 IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
 Mitrophanous K
 PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
 PI ***WO 9945126 A2 19990910 149p***
 AI WO 1999-GB672 19990305
 PRAI GB 1998-4841 19980306
 GB 1998-18103 19980819
 GB 1999-2081 19990129
 DT Patent
 LA English
 OS 1999-540852 [45]
 DESC HSV-1 tegument protein ***VP22*** 3' primer.

L3 ANSWER 119 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAZ07769 DNA DGENE
 TI New prodrug activating agent targeted to selected cells or tissues,
 particularly hypoxic cells, for treating e.g. tumors or inflammation -
 IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
 Mitrophanous K
 PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
 PI ***WO 9945126 A2 19990910 149p***
 AI WO 1999-GB672 19990305
 PRAI GB 1998-4841 19980306
 GB 1998-18103 19980819
 GB 1999-2081 19990129
 DT Patent
 LA English
 OS 1999-540852 [45]
 DESC HSV-1 tegument protein ***VP22*** 5' primer.

L3 ANSWER 120 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAZ19804 DNA DGENE
 TI New prodrug activating agent targeted to selected cells or tissues,
 particularly hypoxic cells, for treating e.g. tumors -
 IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
 Mitrophanous K
 PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
 PI ***WO 9945127 A2 19990910 187p***
 AI WO 1999-GB674 19990305
 PRAI GB 1998-4841 19980306
 GB 1998-18103 19980819
 GB 1999-2081 19990129
 DT Patent
 LA English
 OS 1999-551046 [46]
 DESC Herpes simplex type 1 (HSV-1) tegument protein ***VP22*** 3' PCR
 primer.

L3 ANSWER 121 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAZ19803 DNA DGENE
 TI New prodrug activating agent targeted to selected cells or tissues,
 particularly hypoxic cells, for treating e.g. tumors -
 IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L;
 Mitrophanous K
 PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
 PI ***WO 9945127 A2 19990910 187p***
 AI WO 1999-GB674 19990305
 PRAI GB 1998-4841 19980306

GB 1998-18103 19980819
GB 1999-2081 19990129
DT Patent
LA English
OS 1999-551046 [46]
DESC Herpes simplex type 1 (HSV-1) tegument protein ***VP22*** 5' PCR primer.

L3 ANSWER 122 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAZ19796 DNA DGENE
TI New prodrug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors -
IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L; Mitrophanous K
PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
PI ***WO 9945127 A2 19990910 187p***
AI WO 1999-GB674 19990305
PRAI GB 1998-4841 19980306
GB 1998-18103 19980819
GB 1999-2081 19990129
DT Patent
LA English
OS 1999-551046 [46]
DESC Human anchorless P450R 3' PCR primer.

L3 ANSWER 123 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAZ19795 DNA DGENE
TI New prodrug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors -
IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L; Mitrophanous K
PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
PI ***WO 9945127 A2 19990910 187p***
AI WO 1999-GB674 19990305
PRAI GB 1998-4841 19980306
GB 1998-18103 19980819
GB 1999-2081 19990129
DT Patent
LA English
OS 1999-551046 [46]
DESC Human anchorless P450R 5' PCR primer.

L3 ANSWER 124 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAZ19784 DNA DGENE
TI New prodrug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors -
IN Stratford I J; Patterson A V; Kingsman S M; Kan O; Griffiths L; Mitrophanous K
PA (OXFO-N) OXFORD BIOMEDICA UK LTD.
PI ***WO 9945127 A2 19990910 187p***
AI WO 1999-GB674 19990305
PRAI GB 1998-4841 19980306
GB 1998-18103 19980819
GB 1999-2081 19990129
DT Patent
LA English
OS 1999-551046 [46]
CR P-PSDB: AAY42292
DESC Herpes simplex virus type 1 (HSV-1) ***VP22*** DNA.

L3 ANSWER 125 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV17085 DNA DGENE
TI New antiviral agent disrupting binding of ***VP22*** to VP16 or gB - useful for treating infections caused by herpes simplex, e.g. cold sores and chicken-pox
IN Hope R G; McGeoch D J; McLaughlan J; Rixon H W M
PA (MEDI-N) MEDICAL RES COUNCIL.
PI ***WO 9804708 A1 19980205 75p***
AI WO 1997-GB2036 19970728
PRAI GB 1996-15726 19960726
DT Patent
LA English
OS 1998-130696 [12]
CR P-PSDB: AAW47194
DESC Herpes simplex virus UL49 gene.

L3 ANSWER 126 OF 199 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAT10200 DNA DGENE
 TI Amplification and detection of specific gene fragment of *Vibrio*
parahaemolyticus - using two oligo:nucleotide(s) as a primer set to
 amplify the thermostable direct haemolysin gene
 IN Lii J; Pan S
 PA (LIIJ-I) LII J.
 PI ***TW 265366 A 19951211 9p***
 AI TW 1993-110632 19931215
 PRAI TW 1993-110632 19931215
 DT Patent
 LA Chinese
 OS 1996-086449 [09]
 DESC Thermostable direct haemolysin primer, ***VP22*** .

L3 ANSWER 127 OF 199 IMSDRUGNEWS COPYRIGHT 2004 IMSWORLD on STN

ACCESSION NUMBER: 1999:1564 IMSDRUGNEWS
 TITLE: drug delivery system, ***VP22*** herpesvirus protein
 Phogen agreement extended
 SOURCE: R&D Focus Drug News (***7 Jun 1999***).
 WORD COUNT: 38

L3 ANSWER 128 OF 199 IMSDRUGNEWS COPYRIGHT 2004 IMSWORLD on STN

ACCESSION NUMBER: 1998:1629 IMSDRUGNEWS
 TITLE: drug delivery system, ***VP22*** herpesvirus protein
 Phogen preclinical data
 SOURCE: R&D Focus Drug News (***25 May 1998***).
 WORD COUNT: 179

L3 ANSWER 129 OF 199 IMSDRUGNEWS COPYRIGHT 2004 IMSWORLD on STN

ACCESSION NUMBER: 97:894 IMSDRUGNEWS
 TITLE: drug delivery system, ***VP22*** herpesvirus protein
 Phogen preclinical data
 SOURCE: R&D Focus Drug News (***31 Mar 1997***).
 WORD COUNT: 154

L3 ANSWER 130 OF 199 IMSDRUGNEWS COPYRIGHT 2004 IMSWORLD on STN

ACCESSION NUMBER: 97:685 IMSDRUGNEWS
 TITLE: drug delivery system, ***VP22*** herpesvirus protein
 Phogen Cantab, Marie Curie Cancer Care joint venture
 SOURCE: R&D Focus Drug News (***10 Mar 1997***).
 WORD COUNT: 110

L3 ANSWER 131 OF 199 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BVH1LFT31 GenBank (R)
 GenBank ACC. NO. (GBN): Z54206
 GenBank VERSION (VER): Z54206.1 GI:995626
 CAS REGISTRY NO. (RN): 169022-06-4
 SEQUENCE LENGTH (SQL): 31444
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Viruses
 DATE (DATE): 23 Jan 1997
 DEFINITION (DEF): Bovine herpesvirus type 1 31-kb DNA (left genome end).
 SOURCE: Bovine herpesvirus 1.
 ORGANISM (ORGN): Bovine herpesvirus 1
 Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
 Alphaherpesvirinae; Varicellovirus
 NUCLEIC ACID COUNT (NA): 4507 a 10913 c 11443 g 4581 t
 REFERENCE: 1 (bases 1 to 1354)
 AUTHOR (AU): Fraefel,C.; Wirth,U.V.; Vogt,B.; Schwyzer,M.
 TITLE (TI): Immediate-early transcription over covalently joined
 genome ends of bovine herpesvirus 1: the circ gene
 JOURNAL (SO): Journal of virology., 67 (3), 1328-1333 (***1993***)
 OTHER SOURCE (OS): CA 118:227339
 REFERENCE: 2 (bases 1601 to 3100)
 AUTHOR (AU): Singh,M.; Fraefel,C.; Bello,L.J.; Lawrence,W.C.;
 Schwyzer,M.
 TITLE (TI): Identification and characterization of BICP27, an early
 protein of bovine herpesvirus 1 which may stimulate
 mRNA 3' processing

JOURNAL (SO): The Journal of general virology., 77 (Pt 4), 615-625 (****1996****)

OTHER SOURCE (OS): CA 124:282366

REFERENCE: 3 (bases 3101 to 8000)

AUTHOR (AU): Letchworth,G.J.; Lowery,D.E.; Schwyzer,M.

TITLE (TI): Sequence of the BHV-1 UL53 (gK), UL52 (helicase/primase), and UL51 genes

JOURNAL (SO): Unpublished

REFERENCE: 4 (bases 7818 to 9667)

AUTHOR (AU): Liang,X.; Tang,M.; Manns,B.; Babiuk,L.A.; Zamb,T.J.

TITLE (TI): Identification and deletion mutagenesis of the bovine herpesvirus 1 dUTPase gene and a gene homologous to herpes simplex virus UL49.5

JOURNAL (SO): Virology., 195 (1), 42-50 (****1993****)

OTHER SOURCE (OS): CA 119:153149

REFERENCE: 5 (bases 9662 to 11962)

AUTHOR (AU): Carpenter,D.E.; Misra,V.

TITLE (TI): Sequences of the bovine herpesvirus 1 homologue of herpes simplex virus type-1 alpha-trans-inducing factor (UL48)

JOURNAL (SO): Gene., 119 (2), 259-263 (****1992****)

OTHER SOURCE (OS): CA 119:42360

REFERENCE: 6 (bases 11963 to 15012)

AUTHOR (AU): LaBoissiere,S.; Trudel,M.; Simard,C.

TITLE (TI): Characterization and transcript mapping of a bovine herpesvirus type 1 gene encoding a polypeptide homologous to the herpes simplex virus type 1 major tegument proteins VP13/14

JOURNAL (SO): The Journal of general virology., 73 (Pt 11), 2941-2947 (****1992****)

OTHER SOURCE (OS): CA 119:89230

REFERENCE: 7 (bases 15007 to 22448)

AUTHOR (AU): Vlcek,C.; Paces,V.; Schwyzer,M.

TITLE (TI): Sequence of BHV-1 UL46 to UL41 genes

JOURNAL (SO): Unpublished

REFERENCE: 8 (bases 22099 to 23813)

AUTHOR (AU): Simard,C.; Bastien,N.; Trudel,M.

TITLE (TI): Sequencing and 5'- and 3'-end transcript mapping of the gene encoding the small subunit of ribonucleotide reductase from bovine herpesvirus type-1

JOURNAL (SO): Virology., 190 (2), 689-701 (****1992****)

OTHER SOURCE (OS): CA 119:89863

REFERENCE: 9 (bases 23481 to 31444)

AUTHOR (AU): Simard,C.; Langlois,I.; Styger,D.; Vogt,B.; Vlcek,C.; Chalifour,A.; Trudel,M.; Schwyzer,M.

TITLE (TI): Sequence analysis of the UL39, UL38 and UL37 homologs of bovine herpesvirus 1 and expression studies of UL40 and UL39, the subunits of ribonucleotide reductase

JOURNAL (SO): Virology (1995) In press

REFERENCE: 10 (bases 1 to 31444)

AUTHOR (AU): Schwyzer,M.; Styger,D.; Vogt,B.; Lowery,D.E.; Simard,C.; LaBoissiere,S.; Misra,V.; Vlcek,C.; Paces,V.

TITLE (TI): Gene contents in a 31-kb segment at the left genome end of bovine herpesvirus-1

JOURNAL (SO): Unpublished

REFERENCE: 11 (bases 1 to 31444)

AUTHOR (AU): Schwyzer,M.

TITLE (TI): Direct Submission

JOURNAL (SO): Submitted (21-SEP-1995) Martin Schwyzer, Institute of Virology, Faculty of Veterinary, Medicine, University of Zurich, Winterthurerstr. 266a, Zurich, CH-8057, Switzerland

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..31444	/organism="Bovine herpesvirus 1" /strain="Cooper" /db-xref="taxon:10320" /clone="HindIII fragments N, J, M, I, E"
misc-signal	200..207	/note="octamer box"
repeat-region	235..430	/rpt-type=DIRECT /rpt-unit=235..248
mRNA	466..1280	/gene="circ" /standard-name="LR1.1"

gene	466..1280	/note="transcribed from alternative late promoter"
exon	473..1280	/evidence=experimental /gene="circ" /gene="circ" /standard-name="IER1.5" /note="IE transcription over covalently joined genome ends" /number=2
CDS	486..1229	/evidence=experimental /gene="circ" /note="product of IER1.5 and LR1.1; homolog of VZV ORF2 and EHV-1 ORF3" /codon-start=1 /product="circ" /protein-id="CAA90913.1" /db-xref="GI:995627" /db-xref="SPTREMBL:Q01342" /translation="MGARASAPAAAGPPPAHAVLL DALSGGTIDLPGGDEAVFVSCPTT RPVYHHMRRGRTAHTTPVHFVGRAYAILPCRKF LYLMRGGAVYGYEPTTGLHRLADS LHDFLT TAGLQQRDLHCLDVTVLDAQMDPVTFTT PEILIELEADPAFPPPPSARARRS TLRRASMRRPARTFCPHQLLAEGSILDLC SPEQA AAPGCSLLPACDSGDAACPCDAGE TARDCTADAARAPSPGALSRYSSVRSVFF"
polyA-signal	1259..1264	/gene="circ"
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CDS	complement(1658..2860)	/note="BICP27, UL53, UL52" /function="early protein affecting 3'mRNA processing" /note="homolog of ICP27 (UL54) of HSV-1" /codon-start=1 /product="BICP27" /protein-id="CAA90914.1" /db-xref="GI:995628" /db-xref="SPTREMBL:Q01354" /translation="MADPEIATLSTASESDDL SLFGSDREEDDEAPSLAPALRSVVGQ VRKRKLEGAEDEPMPAEPPEGAASGDGGPAEAP PARRARVRPRRPRRRPRRRQPAGE QRSRGPAAKREAAATSSHGGGGAAARSIGSSLR LARSLAEAAQRATAERTAVFAGA RLDLMRPVQNGGFRAAGVSPWAAVLDFGAEQFVP EGRRVTWETLMFHGRDLYRMFEVR PHAAQAARALRDLVLR SANLVDALASADECLTWC KFIATKNLRLRTKDPIVATAGAVL ENLRLKLAPFLRCYLGRGLPSLEELCAARRLSL ATCPASYMFVMLARLSRAVRSGAE CVPLLEVTVGDA PFEEYIPGTCVAGLIDALDTHK QACDSMTCKLVANFTLV PVVMHGK YFYCNEIF"
TATA-signal	complement(2985..2991)	/note="BICP27"
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polyA-signal	7976..7981	
misc-feature	7982..8028	
polyA-signal	complement(8029..8034)	
CDS	complement(8045..9022)	

CDS	8970..9260	AAAGQRVAQLLLLARRLEWLPSGL NDREPFPTSPRAAPPAPGAPRLRWRRVADLAAAV PPSARGPRGFGSTGL" /codon-start=1 /product="UL49.5" /protein-id="CAA90919.1" /db-xref="GI:995633" /db-xref="SPTREMBL:Q89806" /translation="MPRSPLIVAVVAAALFAIVR GRDPLLDAMRREGAMDFWSAGCYA RGVPLSEPPQALVVFYVALTAVMVAVALYAYGLC FRLMGASGPNKKESRGRG" /note="UL49.5" /note="UL49" /note="homolog of HSV-1 VP22 (tegument protein)" /codon-start=1 /product="UL49" /protein-id="CAA90920.1" /db-xref="GI:995634" /db-xref="SWISS-PROT:P30022" /translation="MARFHRPSEDEDDYEYSDLW VRENSLYDYESGSDDHVYEELRAA TSGPEPSGRRASVRACASAAAVQPAARGRDRAAA AGTTVAAPAAAPARRSSSRASSRP PRAAADPPVLRPATRGSSGGAGAVAVGPPRPAP PGANAVASGRPLAFSAAPKTPKAP WCGPTHAYNRTIFCEAVALVAAEYARQAAASVWD SDPPKSNERLDRMLKSAAIRILVC EGSGLLAAANDILAARAQRPAARGSTSGGESRLR GERARP" /note="UL49" /function="tegument protein which transactivates IE genes" /note="homolog of HSV-1 alphaTIF (Vmw65, VP16)" /codon-start=1 /product="BTIF" /protein-id="CAA90921.1" /db-xref="GI:995635" /db-xref="SPTREMBL:Q65819" /translation="MSGRIKTAGRALASQCGGAA AATMDPYDAIEAFDDSLGSPPLAA GPLYDGPSPARFALPPRPAPLAALLERMQAELG FPDGPALLRAMERWNEDLFSCLPT NADLYADAALLSADADAVVGAMYLAVPGDAERLD LNAHANQPLPAPPASEEGLPEYVA GVQAHFLAELRAREERYAGLFLGYCRALLQHLRA TAARGRGAAGAGAQAADRLRQLVAA RYYREASRLARLAFAHMYVATAREVSWRLHSQQS QAQGVFVSLYYAWPQRRQFTCLFH PVLFNHGVVALEDGFLDAAELRRLNYRRRELGLP LVRAGLVEVEVGPLVEEPPFSGSL PRALGFLNYQVRAKMGAPAEAGGRLAPERESYA RPRGAINYGTTPEAMLRPPSPSEV LPCDPAPAATVRVASPATHLAQPSAKGAAPAEF AALAGLAKPGPAPLAAAPAPFA AALALAEPAALAPAPLAAAPAEPAAVAGPSPA NPFGGTYDALLGDRLNQLLDF" /note="UL47" /note="UL48; noncanonical" /note="Major tegument protein (VP8)" /codon-start=1 /product="UL47" /protein-id="CAA90922.1" /db-xref="GI:995636" /db-xref="SWISS-PROT:P36338" /translation="MDAARDGRPERRRAVSGTYR THPFQRPASARRSAGRPARCGRRGR GAPRVRRPRPYFQRPDEDTSSENVYDYIDGDS SDSADDYDSYFTANRGNHAGD AMDTDAPPERAPEGGAPQDYLTAHLRAIEVLPES APHRSLLEARTVYAQQFPFRDL SAGSKAPAQRARRSLRGFPRGGGGQEPGPDDEG DDAADLREDLVPDEAYAHLEDER
polyA-signal	9231..9236	
TATA-signal	9288..9294	
CDS	9384..10160	
polyA-signal	10224..10229	
CDS	10275..11792	
TATA-signal	11892..11898	
polyA-signal	11892..11897	
CDS	11963..14182	

TATA-signal 14263..14269
CDS 14314..16560

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polyA-signal 16594..16599
misc-feature 16600..16612

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polyA-signal complement(26202..26207 /note="UL38"
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GenBank ACC. NO. (GBN): L10283
GenBank VERSION (VER): L10283.1 GI:388703
CAS REGISTRY NO. (RN): 151210-86-5
SEQUENCE LENGTH (SQL): 8433
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Viruses
DATE (DATE): 29 oct 1993

DEFINITION (DEF): Gallid herpesvirus type 1 homologous sequence (UL50, UL49.5, UL49, UL48, UL47, UL46, and UL45) genes, complete cds.

SOURCE: Gallid herpesvirus type 1 (strain GA) DNA.

ORGANISM (ORGN): Gallid herpesvirus 1
Viruses; dsDNA viruses, no RNA stage; Herpesviridae; Alphaherpesvirinae; Infectious laryngotracheitis-like viruses

NUCLEIC ACID COUNT (NA): 2454 a 1751 c 1825 g 2403 t

REFERENCE: 1 (bases 1 to 8433)

AUTHOR (AU): Yanagida,N.; Yoshida,S.; Nazerian,K.; Lee,L.F.

TITLE (TI): Nucleotide and predicted amino acid sequences of Marek's disease virus homologues of herpes simplex virus major tegument proteins

JOURNAL (SO): J. Gen. Virol., 74 (Pt 9), 1837-1845 (***1993***)

OTHER SOURCE (OS): CA 120:3013

FEATURES (FEAT):	Feature Key	Location	Qualifier
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L3 ANSWER 133 OF 199 GENBANK.RTM. COPYRIGHT 2004 on STN

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GenBank VERSION (VER): M81775.1 GI:209738
CAS REGISTRY NO. (RN): 140600-01-7
SEQUENCE LENGTH (SQL): 1096
MOLECULE TYPE (CI): ss; RNA; linear
DIVISION CODE (CI): Viruses
DATE (DATE): 27 Apr 1993
DEFINITION (DEF): Andean potato mottle virus coat protein (***VP22***) mRNA, 3' end.
SOURCE: Andean potato mottle virus cDNA to genomic RNA.
ORGANISM (ORGN): Andean potato mottle virus
Viruses; ssRNA positive-strand viruses, no DNA stage;
Comoviridae; Comovirus
NUCLEIC ACID COUNT (NA): 304 a 161 c 240 g 391 t
REFERENCE: 1 (bases 1 to 1096)
AUTHOR (AU): Shindo,N.; Krengiel,R.; Brioso,P.S.; Vicente,A.C.;
Weyne,M.; de Oliveira,D.E.; Timmerman,B.
TITLE (TI): Complete nucleotide sequence of the 22 kDa coat protein
of Andean potato mottle virus
JOURNAL (SO): Plant Mol. Biol., 19 (3), 505-507 (***1992***)
OTHER SOURCE (OS): CA 118:249964

FEATURES (FEAT):

Feature Key	Location	Qualifier
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L3 ANSWER 134 OF 199 LIFESCI COPYRIGHT 2004 CSA on STN
AN 2000:9036 LIFESCI
TI Protein therapy - delivery guaranteed
AU Bayley, H.
CS Department of medical biochemistry and genetics at the Texas A&M Health
Science Center, College Station, TX 77843-1114, USA; E-mail:
bayley@tamu.edu
SO Nature Biotechnology [Nat. Biotechnol.], (***19991100***) vol. 17, no.
11, pp. 1066-1067.
ISSN: 1087-0156.
DT Journal
TC General Review
FS W3
LA English

L3 ANSWER 135 OF 199 LIFESCI COPYRIGHT 2004 CSA on STN
AN 1998:92608 LIFESCI
TI Herpes simplex virus type 1 tegument protein ***VP22*** induces the
stabilization and hyperacetylation of microtubules
AU Elliott, G.; O'Hare, P.
CS Marie Curie Research Institute, The Chart, Oxted, Surrey RH8 0TL, United
Kingdom.
SO J. Virol., (***19980800***) vol. 72, no. 8, pp. 6406-6413.
ISSN: 0022-538X.
DT Journal
FS V
LA English
SL English

L3 ANSWER 136 OF 199 MEDLINE on STN
AN 2000008734 MEDLINE
DN PubMed ID: 10543389
TI Can ***VP22*** resurrect gene therapy?
CM Comment on: J Mol Med. 1999 Aug;77(8):609-13. PubMed ID: 10543392
AU Luft F C
CS Franz-Volhard-Klinik, Humboldt University of Berlin, Berlin-Buch,
Germany.. luft@fvk-berlin.de
SO Journal of molecular medicine (Berlin, Germany), *** (1999 Aug) *** 77
(8) 575-6.
Journal code: 9504370. ISSN: 0946-2716.
CY GERMANY: Germany, Federal Republic of
DT Commentary
Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199911
ED Entered STN: 20000111
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AN 97414190 MEDLINE
DN PubMed ID: 9269047
TI Study of immunogenicity and virulence of bovine herpesvirus 1 mutants
deficient in the UL49 homolog, UL49.5 homolog and dUTPase genes in cattle.
AU Liang X; Chow B; Babiuk L A
CS Veterinary Infectious Disease Organization, University of Saskatchewan,
Saskatoon, Canada.
SO Vaccine, *** (1997 Jul) *** 15 (10) 1057-64.
Journal code: 8406899. ISSN: 0264-410X.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199710
ED Entered STN: 19971105
Last Updated on STN: 20020926
Entered Medline: 19971020

L3 ANSWER 138 OF 199 MEDLINE on STN
AN 95264482 MEDLINE
DN PubMed ID: 7745736
TI Characterization of bovine herpesvirus 1 UL49 homolog gene and product:
bovine herpesvirus 1 UL49 homolog is dispensable for virus growth.
AU Liang X; Chow B; Li Y; Raggo C; Yoo D; Attah-Poku S; Babiuk L A
CS Veterinary Infectious Diseases Organization, University of Saskatchewan,
Saskatoon, Canada.
SO Journal of virology, *** (1995 Jun)*** 69 (6) 3863-7.
Journal code: 0113724. ISSN: 0022-538X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-U21137
EM 199506
ED Entered STN: 19950621
Last Updated on STN: 19950621
Entered Medline: 19950613

L3 ANSWER 139 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1646911 PHARMAML
TI Cantab making "significant progress"
SO Marketletter May 20, 1999
DT Newsletter
WC 221

L3 ANSWER 140 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1644751 PHARMAML
TI Cantab On Track To Being A Fully Integrated Company
SO Marketletter December 3, 1998
DT Newsletter
WC 1651

L3 ANSWER 141 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1644315 PHARMAML
TI UK Biotech Firms Back In Vogue With Investors?
SO Marketletter November 5, 1998
DT Newsletter
WC 1448

L3 ANSWER 142 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1641854 PHARMAML
TI Cantab Reports Solid Progress During 1st Qtr
SO Marketletter May 28, 1998
DT Newsletter
WC 237

L3 ANSWER 143 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1641682 PHARMAML
TI Stock Commentary Europe
SO Marketletter May 14, 1998
DT Newsletter
WC 337

L3 ANSWER 144 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1641505 PHARMAML
TI Phogen Signs First Commercial Deal
SO Marketletter April 30, 1998
DT Newsletter
WC 59

L3 ANSWER 145 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1636166 PHARMAML
TI Cantab And Marie Curie Cancer Care Form New Biotech Company; Cantab
Shares
SO Marketletter March 10, 1997
DT Newsletter
WC 55

L3 ANSWER 146 OF 199 PHARMAML COPYRIGHT 2004 MARKETLETTER on STN
AN 1635838 PHARMAML
TI New Discovery At Marie Curie Research Institute
SO Marketletter February 10, 1997
DT Newsletter
WC 57

L3 ANSWER 147 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 1999:19715 PHIN
DN S00644158
DED 17 Nov 1999
TI Cantab ahead of budget at nine months
SO Scrip (***1999***) No. 2490 p15
DT Newsletter
FS FULL

L3 ANSWER 148 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 1999:9623 PHIN
DN S00623580
DED 26 May 1999
TI Phogen joint venture to receive more funding
SO Scrip (***1999***) No. 2440 p14
DT Newsletter
FS FULL

L3 ANSWER 149 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 1999:2652 PHIN
DN S00609030
DED 22 Jan 1999
TI New gene therapy techniques
SO Scrip (***1999***) No. 2405 p22
DT Newsletter
FS FULL

L3 ANSWER 150 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 1998:15871 PHIN
DN B00592838
DED 1 Jul 1998
TI ReqMed Co.: Japanese Entrepreneurial Spirit Takes a First Step
SO Bioventure-View (***1998***) No. 1307 p18
DT Newsletter
FS FULL

L3 ANSWER 151 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 1998:11262 PHIN
DN B00583792
DED 1 Jun 1998
TI Research and Clinical Progress: Phogen Ltd
SO Bioventure-View (***1998***) No. 1406 p30
DT Newsletter
FS FULL

L3 ANSWER 152 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 1998:9688 PHIN
DN S00580586
DED 15 May 1998
TI Cantab's ***VP22*** shows early promise
SO Scrip (***1998***) No. 2335 p29
DT Newsletter
FS FULL

L3 ANSWER 153 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 97:13839 PHIN
DN B00546118
DED 1 Jul 1997
TI Biotech's Transatlantic Challenge BVV's Eurotour Continues
SO Bioventure-View (***1997***) No. 1207 p4
DT Newsletter
FS FULL

L3 ANSWER 154 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 97:8845 PHIN
DN B00535906
DED 1 Apr 1997

TI Agreements - Cantab Pharmaceuticals
SO Bioventure-View (***1997***) No. 1204 p18
DT Newsletter
FS BRIEF

L3 ANSWER 155 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 97:8623 PHIN
DN S00536364
DED 9 May 1997
TI PHARMAPROJECTS - New Formulations for week ending 2 May 1997
SO Scrip-Online-plus (***1997***)
DT Newsletter
FS FULL

L3 ANSWER 156 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 97:5606 PHIN
DN S00528886
DED 11 Mar 1997
TI Cantab Pharmaceuticals teams up with UK cancer charity
SO Scrip (***1997***) No. 2213 p10
DT Newsletter
FS FULL

L3 ANSWER 157 OF 199 PHIN COPYRIGHT 2004 PJB on STN

AN 97:3906 PHIN
DN S00526786
DED 25 Feb 1997
TI Gene therapy update
SO Scrip (***1997***) No. 2209 p23
DT Newsletter
FS FULL

L3 ANSWER 158 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:732888 PROMT
TITLE: Cantab Reports Third Quarter Financial Results Ahead of Budget.
SOURCE: PR Newswire, (***10 Nov 1999***) pp. 1097.
PUBLISHER: PR Newswire Association, Inc.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 1841
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 159 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:399865 PROMT
TITLE: Enhancement of Mucosal Immune Responses to HIV Gp160.
SOURCE: Vaccine Weekly, (****14 Jun 1999****) .
ISSN: 1074-2921.
PUBLISHER: Charles W. Henderson
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 417
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 160 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:340020 PROMT
TITLE: Cantab making "significant progress".
SOURCE: Marketletter, (****24 May 1999****) .
ISSN: 0951-3175.
PUBLISHER: Marketletter Publications Ltd.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 228
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 161 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:331352 PROMT
TITLE: Phogen Receives Extended Funding to Continue Drug Delivery Program.

SOURCE: PR Newswire, (***20 May 1999***) pp. 4072.
PUBLISHER: PR Newswire Association, Inc.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 936
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 162 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:331351 PROMT
TITLE: Cantab Pharmaceuticals Reports First Quarter Financial Results and Significant Progress in Key Development Programs.
SOURCE: PR Newswire, (***20 May 1999***) pp. 4071.
PUBLISHER: PR Newswire Association, Inc.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 1541
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 163 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1999:141589 PROMT
TITLE: Cantab Reports 1998 Fourth Quarter and Year End Financial Results and Corporate Review of Progress.
SOURCE: PR Newswire, (***9 Mar 1999***) pp. 1400.
PUBLISHER: PR Newswire Association, Inc.
DOCUMENT TYPE: Newsletter
LANGUAGE: English
WORD COUNT: 1986
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 164 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:633293 PROMT
TITLE: Cantab On Track To Being A Fully Integrated Company.
SOURCE: Marketletter, (***7 Dec 1998***) pp. NA.
ISSN: 0951-3175.
LANGUAGE: English
WORD COUNT: 1655
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 165 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:591203 PROMT
TITLE: Cantab Reports Third Quarter Financial Results - Company makes progress in key clinical programs -
SOURCE: PR Newswire, (***12 Nov 1998***) pp. 1402.
LANGUAGE: English
WORD COUNT: 1591
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 166 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:577595 PROMT
TITLE: UK Biotech Firms Back In Vogue With Investors?
SOURCE: Marketletter, (***9 Nov 1998***) pp. NA.
ISSN: 0951-3175.
LANGUAGE: English
WORD COUNT: 1444
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 167 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:497629 PROMT
TITLE: Recognition of Herpes Simplex Virus Type 2 Tegument Proteins by CD4 T Cells Infiltrating Human Genital Herpes Lesions.
SOURCE: Vaccine Weekly, (***21 Sep 1998***) pp. NA.
ISSN: 1074-2921.
LANGUAGE: English
WORD COUNT: 289
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 168 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:451675 PROMT
TITLE: Joined for strength
SOURCE: Med Ad News, (***Aug 1998***) pp. 26.
ISSN: 0745-0907.
LANGUAGE: English
WORD COUNT: 3198
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 169 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:382725 PROMT
TITLE: New Faces, New Names
SOURCE: BioPharm, (***Jul 1998***) pp. 10.
ISSN: 1040-8304.
LANGUAGE: English
WORD COUNT: 154
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 170 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:295529 PROMT
TITLE: Delivering p53 with Herpesvirus Protein
SOURCE: Applied Genetics News, (***1 Jun 1998***) pp. N/A.
ISSN: 0271-7107.
LANGUAGE: English
WORD COUNT: 334
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 171 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:264243 PROMT
TITLE: drug delivery system, ***VP22*** herpesvirus protein
Phogen preclinical data
Preclinical results of Phogen's treatment reported
SOURCE: R & D Focus Drug News, (***25 May 1998***) pp. N/A.
ISSN: 1350-1135.
LANGUAGE: English
WORD COUNT: 196
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 172 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:262791 PROMT
TITLE: Cantab Reports Solid Progress During 1st Qtr
SOURCE: Marketletter, (***1 Jun 1998***) pp. N/A.
ISSN: 0951-3175.
LANGUAGE: English
WORD COUNT: 248
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 173 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:237169 PROMT
TITLE: Stock Commentary Europe
SOURCE: Marketletter, (***18 May 1998***) pp. N/A.
ISSN: 0951-3175.
LANGUAGE: English
WORD COUNT: 337
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 174 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:237110 PROMT
TITLE: Phogen Signs First Commercial Deal
SOURCE: Marketletter, (***4 May 1998***) pp. N/A.
ISSN: 0951-3175.
LANGUAGE: English
WORD COUNT: 59
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 175 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:208184 PROMT
TITLE: Phogen and Invitrogen Collaborate to Market ***VP22***
Reagents
SOURCE: PR Newswire, (***27 Apr 1998***) pp. 0427NYM008.

LANGUAGE: English
WORD COUNT: 806
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 176 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:175690 PROMT
TITLE: DEVELOPMENTS IN BIOTECHNOLOGY :Cantab-Reports Year-End
Results - A Year Of Solid Progress
SOURCE: BioAccess, (***1 Apr 1998***) pp. N/A.
ISSN: 1356-3432.
LANGUAGE: English
WORD COUNT: 681
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 177 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 1998:109999 PROMT
TITLE: Cantab Pharmaceuticals Reports Year-End Results; Company
Turns in a Year of Solid Progress Across All Business Areas
SOURCE: PR Newswire, (***2 Mar 1998***) pp. 0302NYM022.
LANGUAGE: English
WORD COUNT: 1474
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 178 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:496714 PROMT
TITLE: Biotech's Transatlantic Challenge (PART 1)
SOURCE: BioVenture View, (***1 Aug 1997***) pp. N/A.
ISSN: 0892-1903.
LANGUAGE: English
WORD COUNT: 2338
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 179 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:355215 PROMT
TITLE: Biotech's Transatlantic Challenge --BWV's Eurotour
Continues-Part 1
SOURCE: BioVenture View, (***1 Jul 1997***) pp. N/A.
ISSN: 0892-1903.
LANGUAGE: English
WORD COUNT: 4781
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 180 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:198204 PROMT
TITLE: Phogen JV exposes potential of herpesvirus drug delivery.
This biotech co formed to develop new drug delivery means
using ***VP22*** herpesvirus protein tech
SOURCE: Genetic Engineering News, (***15 Mar 1997***) pp. 4.
ISSN: 0270-6377.
LANGUAGE: English

L3 ANSWER 181 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:190488 PROMT
TITLE: Corporate Agreements:Cantab Pharmaceuticals plc
SOURCE: BioVenture View, (***1 Apr 1997***) pp. N/A.
ISSN: 0892-1903.
LANGUAGE: English
WORD COUNT: 153
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 182 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:166243 PROMT
TITLE: Cantab Pharmaceuticals Reports Fourth Quarter Results
SOURCE: PR Newswire, (***19 Mar 1997***) pp. 0319NYW026.
LANGUAGE: English
WORD COUNT: 1474
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 183 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:158009 PROMT
TITLE: Cantab joins forces with MCCC to form biotech company
SOURCE: Pharmaceutical Business News, (***12 Mar 1997***) pp.
N/A.
ISSN: 0956-0661.
LANGUAGE: English
WORD COUNT: 511
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 184 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:147009 PROMT
TITLE: Industry News (Joint Venture) New Company To Develop Drug
Delivery Technology Against Disease
SOURCE: Disease Weekly Plus, (***10 Mar 1997***) pp. N/A.
LANGUAGE: English
WORD COUNT: 617
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 185 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:135685 PROMT
TITLE: Industry News (Joint Venture) New Company To Develop Drug
Delivery Technology Against Disease
SOURCE: Cancer Weekly Plus, (***10 Mar 1997***) pp. N/A.
LANGUAGE: English
WORD COUNT: 617
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 186 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:122260 PROMT
TITLE: Cantab Pharmaceuticals and Marie Curie Cancer Care Form New
Biotechnology Company to Develop Drug Delivery Technology
SOURCE: PR Newswire, (***27 Feb 1997***) pp. 0227NYTH010.
LANGUAGE: English
WORD COUNT: 989
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 187 OF 199 PROMT COPYRIGHT 2004 Gale Group on STN

ACCESSION NUMBER: 97:75700 PROMT
TITLE: New Discovery At Marie Curie Research Institute
SOURCE: Marketletter, (***10 Feb 1997***) pp. N/A.
ISSN: 0951-3175.
LANGUAGE: English
WORD COUNT: 56
FULL TEXT IS AVAILABLE IN THE ALL FORMAT

L3 ANSWER 188 OF 199 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.
on STN

AN 1999:763858 SCISEARCH
GA The Genuine Article (R) Number: 226QX
TI Preliminary structural characterization of ***VP22*** , a protein
expressing novel intercellular trafficking activity
AU Kuelto L (Reprint); OHare P; Middaugh C R
CS UNIV KANSAS, DEPT PHARMACEUT CHEM, LAWRENCE, KS 66047; MARIE CURIE RES
INST, SURREY RH8 0TL, ENGLAND
CYA USA; ENGLAND
SO FASEB JOURNAL, (***23 APR 1999***) Vol. 13, No. 7, Supp. [S], pp.
A1393-A1393.
Publisher: FEDERATION AMER SOC EXP BIOL, 9650 ROCKVILLE PIKE, BETHESDA, MD
20814-3998.
ISSN: 0892-6638.
DT Conference; Journal
FS LIFE
LA English
REC Reference Count: 0

L3 ANSWER 189 OF 199 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.
on STN

AN 1999:137239 SCISEARCH
GA The Genuine Article (R) Number: 165CH
TI European drug news - In vivo potential for ***VP22*** in gene therapy
shown

AU Fox S
SO GENETIC ENGINEERING NEWS, (***1 FEB 1999***) Vol. 19, No. 3, pp. 20-&.
Publisher: MARY ANN LIEBERT INC PUBL, 2 MADISON AVENUE, LARCHMONT, NY
10538.
ISSN: 0270-6377.
DT Article; Journal
LA English
REC Reference Count: 0

L3 ANSWER 190 OF 199 SCISEARCH COPYRIGHT (c) 2004 The Thomson Corporation.
on STN

AN 1998:312179 SCISEARCH
GA The Genuine Article (R) Number: ZH354
TI C-type lectin-like receptors in peptide-specific HLA class I-restricted
cytotoxic T lymphocytes: differential expression and modulation of
effector functions in clones sharing identical TCR structure and epitope
specificity

AU Noppen C (Reprint); Schaefer C; Zajac P; Schutz A; Kocher T; Kloth J;
Heberer M; Colonna M; DeLibero G; Spagnoli G C
CS UNIV BASEL, DEPT SURG, DIV RES, HEBELSTR 20, CH-4031 BASEL, SWITZERLAND
(Reprint); BASEL INST IMMUNOL, BASEL, SWITZERLAND; UNIV BASEL, DEPT RES,
BASEL, SWITZERLAND

CYA SWITZERLAND
SO EUROPEAN JOURNAL OF IMMUNOLOGY, (***APR 1998***) Vol. 28, No. 4, pp.
1134-1142.

Publisher: VCH PUBLISHERS INC, 303 NW 12TH AVE, DEERFIELD BEACH, FL
33442-1788.
ISSN: 0014-2980.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 29

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 191 OF 199 USPATFULL on STN

AN 2004:129601 USPATFULL

TI Nucleic acid transfer phage

IN Akuta, Teruo, Kumamoto, JAPAN

Yokoi, Haruhiko, Tokyo, JAPAN

Okuyama, Hajime, Hyogo, JAPAN

Takeda, Katsuo, late of Tokyo, JAPAN deceased

Eiko Takeda, United States legal representative

Hasegawa, Mamoru, Ibaraki, JAPAN

Nakanishi, Mahito, Osaka, JAPAN

PA DNAVEC Research, Inc., JAPAN (non-U.S. corporation)

PI US 6740524 B1 20040525

WO 9966061 19991223

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AI US 2001-720003 20010904 (9)

WO 1999-JP3272 19990618

PRAI JP 1998-189845 19980618

DT Utility

FS GRANTED

LN.CNT 887

INCL INCLM: 435/456.000

INCLS: 530/350.000; 435/320.100; 435/252.300; 435/252.330; 435/235.100;
435/069.700; 435/975.000; 536/023.400

NCL NCLM: 435/456.000

NCLS: 435/069.700; 435/235.100; 435/252.300; 435/252.330; 435/320.100;
435/975.000; 530/350.000; 536/023.400

IC [7]

ICM: C12N015-86

ICS: C12N015-62; C12N001-21; C12N005-10; C07K019-00

EXF 530/350; 435/235.1; 435/320.1; 435/252.33; 435/456; 435/69.7; 435/975;
536/23.4; 424/93.2

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 192 OF 199 USPATFULL on STN

AN 2003:228405 USPATFULL

TI Promoter for telomerase reverse transcriptase

IN Morin, Gregg B., Davis, CA, United States

Andrews, William H., Richmond, CA, United States

PA Geron Corporation, Menlo Park, CA, United States (U.S. corporation)

PI US 6610839 B1 20030826

WO 9814593 19980409

<--

AI US 1999-402181 19990929 (9)

WO 1997-US17885 19971001

RLI Continuation-in-part of Ser. No. US 1997-912951, filed on 14 Aug 1997
Continuation-in-part of Ser. No. US 1997-911312, filed on 14 Aug 1997,
now abandoned Continuation-in-part of Ser. No. US 1997-915503, filed on
14 Aug 1997, now abandoned
DT Utility
FS GRANTED
LN.CNT 10430
INCL INCLM: 536/024.100
INCLS: 435/194.000; 435/320.100
NCL NCLM: 536/024.100
NCLS: 435/194.000; 435/320.100
IC [7]
ICM: C07H021-04
ICS: C12N009-12; C12N015-00
EXF 435/194; 435/320.1; 536/24.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 193 OF 199 USPATFULL on STN
AN 1998:59111 USPATFULL
TI Programming which can make threshold voltages of programmed memory cells
have a narrow distribution in a nonvolatile semiconductor memory
IN Takeshima, Toshio, Tokyo, Japan
Sugawara, Hiroshi, Tokyo, Japan
PA NEC Corporation, Tokyo, Japan (non-U.S. corporation)
PI US 5757699 19980526 <--
AI US 1997-862965 19970603 (8)
PRAI JP 1996-140497 19960603
DT Utility
FS Granted
LN.CNT 817
INCL INCLM: 365/185.240
INCLS: 365/185.220; 365/185.190; 365/185.030
NCL NCLM: 365/185.240
NCLS: 365/185.030; 365/185.190; 365/185.220
IC [6]
ICM: G11C007-00
EXF 365/185.24; 365/185.21; 365/185.19; 365/185.03

L3 ANSWER 194 OF 199 USPATFULL on STN
AN 97:25432 USPATFULL
TI Display apparatus
IN Kawaguchi, Takafumi, Yamatotakada, Japan
Tomiyoshi, Akira, Nara, Japan
Takeda, Makoto, Nara, Japan
PA Sharp Kabushiki Kaisha, Osaka, Japan (non-U.S. corporation)
PI US 5614922 19970325 <--
AI US 1995-414717 19950331 (8)
PRAI JP 1994-66145 19940404
DT Utility
FS Granted
LN.CNT 1311
INCL INCLM: 345/089.000
INCLS: 345/094.000; 345/100.000
NCL NCLM: 345/089.000
NCLS: 345/094.000; 345/100.000
IC [6]
ICM: G09G003-36
EXF 345/87; 345/89; 345/94; 345/99; 345/100; 345/150; 345/208; 345/211;
359/55; 359/56

L3 ANSWER 195 OF 199 USPATFULL on STN
AN 94:29081 USPATFULL
TI Semiconductor IC device having sense amplifier circuit
IN Kawahara, Takayuki, Kokubunji, Japan
Akiba, Takesada, Kokubunji, Japan
Kitsukawa, Goro, Tokyo, Japan
Kawajiri, Yoshiki, Akishima, Japan
Itoh, Kiyoo, Higashikurume, Japan
Sakata, Takeshi, Kunitachi, Japan
PA Hitachi, Ltd., Tokyo, Japan (non-U.S. corporation)
Hitachi Device Engineering Co., Ltd., Mobara, Japan (non-U.S.
corporation)
PI US 5300839 19940405 <--
AI US 1992-865852 19920409 (7)
PRAI JP 1991-82228 19910415
JP 1992-11727 19920127

DT Utility
FS Granted
LN.CNT 1031
INCL INCLM: 307/530.000
INCLS: 365/203.000
NCL NCLM: 327/052.000
NCLS: 365/203.000; 365/208.000
IC [5]
ICM: G11C007-06
EXF 307/247.1; 307/350; 307/530; 365/189.06; 365/203; 365/205; 365/208

L3 ANSWER 196 OF 199 USPATFULL on STN
AN 91:55132 USPATFULL
TI Image forming apparatus with AC bias voltages for preventing developer mixture
IN Tajima, Hatsuho, Matsudo, Japan
Kobayashi, Yoshiaki, Tokyo, Japan
PA Canon Kabushiki Kaisha, Tokyo, Japan (non-U.S. corporation)
PI US 5030996 19910709 <--
AI US 1990-574893 19900830 (7)
PRAI JP 1989-223196 19890831

DT Utility
FS Granted
LN.CNT 758
INCL INCLM: 355/246.000
INCLS: 118/645.000; 355/326.000
NCL NCLM: 399/232.000
NCLS: 399/270.000
IC [5]
ICM: G03G021-00
EXF 355/246; 355/214; 355/326; 355/327; 355/328; 355/261; 355/265; 355/266;
118/645; 118/647; 118/651; 118/653; 346/157

L3 ANSWER 197 OF 199 USPATFULL on STN
AN 79:17060 USPATFULL
TI Two-color electrostatic printing apparatus
IN Yamauchi, Mineo, Musashino, Japan
Sumi, Akira, Musashino, Japan
PA Yokogawa Electric Works, Ltd., Tokyo, Japan (non-U.S. corporation)
PI US 4148043 19790403 <--
AI US 1977-782095 19770328 (5)
PRAI JP 1976-35640 19760331

DT Utility
FS Granted
LN.CNT 853
INCL INCLM: 346/157.000
INCLS: 346/154.000
NCL NCLM: 347/115.000
NCLS: 347/142.000
IC [2]
ICM: G03G015-02
EXF 346/157; 346/153; 346/154; 355/14

L3 ANSWER 198 OF 199 USPATFULL on STN
AN 77:17043 USPATFULL
TI Process for polymerizing tetrafluoroethylene in aqueous dispersion
IN Holmes, David Alan, Vienna, WV, United States
PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States
(U.S. corporation)
PI US 4016345 19770405 <--
AI US 1976-670075 19760324 (5)
RLI Continuation-in-part of Ser. No. US 1972-317804, filed on 22 Dec 1972,
now abandoned

DT Utility
FS Granted
LN.CNT 590
INCL INCLM: 526/206.000
INCLS: 526/255.000
NCL NCLM: 526/206.000
NCLS: 526/255.000
IC [2]
ICM: C08F014-26
EXF 526/229; 526/255; 526/206
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 199 OF 199 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

AN 1991-067287 [10] WPIDS
DNN N1991-052055
TI Colour image forming appts. - has image bearing element toner developer
and developing bias voltage applying device.
DC P84 S06
IN KOBAYASHI, Y; TAJIMA, H
PA (CANO) CANON KK
CYC 5
PI EP 415753 A 19910306 (199110)* <--
R: DE FR GB IT
US 5030996 A 19910709 (199130) <--
EP 415753 B1 19931201 (199348) EN 18 G03G015-01 <--
R: DE FR GB IT
DE 69004896 E 19940113 (199403) G03G015-01 <--
ADT EP 415753 A EP 1990-309486 19900830; US 5030996 A US 1990-574893 19900830;
EP 415753 B1 EP 1990-309486 19900830; DE 69004896 E DE 1990-604896
19900830, EP 1990-309486 19900830
FDT DE 69004896 E Based on EP 415753
PRAI JP 1989-223196 19890831
IC G03G015-01; G03G021-00
STN INTERNATIONAL LOGOFF AT 14:44:17 ON 22 SEP 2004

Hit List

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 70 of 70 returned.

☐ 1. Document ID: US 20040157771 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 70

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040157771
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040157771 A1

TITLE: Rank-ligand-induced sodium/proton antiporter polypeptides

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge	WA	US	
Tometsko, Mark E.	Seattle	WA	US	
Dougall, William C.	Seattle	WA	US	
Mosley, Bruce A.	Seattle	WA	US	

US-CL-CURRENT: [514/12](#); [435/320.1](#), [435/325](#), [435/69.1](#), [530/350](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 2. Document ID: US 20040142892 A1

L2: Entry 2 of 70

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142892
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040142892 A1

TITLE: Autogene nucleic acids encoding a secretable RNA polymerase

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Finn, John	Vancouver		CA	
MacLachlan, Ian	Vancouver		CA	

US-CL-CURRENT: [514/44](#); [435/199](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

ABSTRACT:

This invention provides methods, nucleic acids, compounds, and compositions for expressing a product of interest in a cell that involve a secretable RNA Polymerase.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 3. Document ID: US 20040132088 A1

L2: Entry 3 of 70

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132088

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132088 A1

TITLE: Expression vectors encoding epitopes of target-associated antigens and methods for their design

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Simard, John J.L.	Vancouver	CA	CA	
Diamond, David C.	West Hills	CA	US	
Qiu, Zhiyong	Los Angeles	CA	US	
Lei, Xiang-Dong	West Hills		US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The invention disclosed herein is directed to methods of identifying a polypeptide suitable for epitope liberation including, for example, the steps of identifying an epitope of interest; providing a substrate polypeptide sequence including the epitope, wherein the substrate polypeptide permits processing by a proteasome; contacting the substrate polypeptide with a composition including the proteasome, under conditions that support processing of the substrate polypeptide by the proteasome; and assaying for liberation of the epitope. The invention further relates to vectors including a housekeeping epitope expression cassette and also vectors including epitope cluster regions. The housekeeping epitope(s) can be derived from a target-associated antigen. The housekeeping epitope can be liberatable, that is capable of liberation, from a translation product of the cassette by immunoproteasome processing. The invention also relates to a method of activating a T cell comprising contacting a substrate polypeptide with an APC and contacting the APC with a T cell.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 4. Document ID: US 20040132033 A1

L2: Entry 4 of 70

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132033

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132033 A1

TITLE: Human heparanase gene regulatory sequences

<http://westbtrs.9000/bin/gate.exe?f=TOC&state=ofb0q.3&ref=2&dbname=PGPB,USPT,USOC...> 9/22/04

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wolffe, Elizabeth J.	Orinda	CA	US	
Wolffe, Alan P.	Orinda	CA	US	
Qi, Hong	Cottonwood	CA	US	

US-CL-CURRENT: 435/6; 435/200, 435/320.1, 435/325, 435/69.1, 536/21, 536/23.2

ABSTRACT:

Nucleotide sequences comprising regulatory regions of the human heparanase gene are provided. Also provided are methods and compositions for regulating heparanase expression, as well as methods and compositions for using heparanase sequences to regulate a heterologous target gene.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des.
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☐ 5. Document ID: US 20040115770 A1

L2: Entry 5 of 70

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040115770

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040115770 A1

TITLE: Polypeptides for increasing mutant CFTR channel activity

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Robbins, Paul D.	Mt. Lebanon	PA	US	
Frizzell, Raymond	Pittsburgh	PA	US	
Mi, Zhibao	Pittsburgh	PA	US	
Sun, Fei	Warrendale	PA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 530/350

ABSTRACT:

The present invention provides methods and compositions for enhancing channel activity to the mutant cystic fibrosis trans-membrane conductance regulator protein (CFTR). The compositions of the invention comprise polypeptides containing CFTR sub-domains that are designed to mimic the folding defect of the full length mutant CFTR proteins, resulting in competitive binding to cytoplasmic chaperones such as Hsc/Hsp70 and Hdj2. The methods of the invention comprise transduction, or recombinant expression, of CFTR polypeptides in a cell expressing mutant CFTR. The presence of the CFTR polypeptide results in a dominant effect whereby the CFTR polypeptide competes with the endogenously expressed mutant CFTR for binding to cytoplasmic chaperones such as Hsc/Hsp70 and Hdj2. Mutant CFTR proteins include, but are not limited to, .DELTA.F508 CFTR. The present invention is based on the discovery that reduced binding of cytoplasmic chaperones to the endogenous .DELTA.F508 CFTR, mediated by the presence of CFTR polypeptides, results in restoration of plasma

membrane localization and channel activity. The methods and compositions of the invention can be used to restore channel activity in cystic fibrosis subjects carrying genetic defects in the CFTR gene, such as for example, .DELTA.F508 CFTR.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NUMC	Draw Des
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☐ 6. Document ID: US 20040063907 A1

L2: Entry 6 of 70

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040063907

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040063907 A1

TITLE: Gene differentially expressed in breast and bladder cancer and encoded polypeptides

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zauderer, Maurice	Pittsford	NY	US	
Evans, Elizabeth E.	Rochester	NY	US	
Borrello, Melinda A.	Pittsford	NY	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

ABSTRACT:

The present invention relates to a novel human gene that is differentially expressed in human carcinoma. More specifically, the present invention relates to a polynucleotide encoding a novel human polypeptide named C35 that is overexpressed in human breast and bladder carcinoma. This invention also relates to C35 polypeptide, in particular C35 peptide epitopes and C35 peptide epitope analogs, as well as vectors, host cells, antibodies directed to C35 polypeptides, and the recombinant methods for producing the same. The present invention further relates to diagnostic methods for detecting carcinomas, including human breast carcinomas. The present invention further relates to the formulation and use of the C35 gene and polypeptides, in particular C35 peptide epitopes and C35 peptide epitope analogs, in immunogenic compositions or vaccines, to induce antibody or cell-mediated immunity against target cells, such as tumor cells, that express the C35 gene. The invention further relates to screening methods for identifying agonists and antagonists of C35 activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NUMC	Draw Des
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☐ 7. Document ID: US 20040058881 A1

L2: Entry 7 of 70

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040058881

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040058881 A1

TITLE: Ii-key/antigenic epitope hybrid peptide vaccines

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Humphreys, Robert E.	Acton	MA	US	
Xu, Minzhen	Northborough	MA	US	

US-CL-CURRENT: 514/44; 435/320.1, 435/325, 435/6, 435/69.1, 530/350, 536/23.5

ABSTRACT:

Disclosed is a nucleic acid molecule comprising a first expressible sequence encoding a protein of interest or polypeptide of interest which contains an MHC Class II-presented epitope. In addition, the nucleic acid molecule comprises a second expressible nucleic acid sequence encoding an antigen presentation enhancing hybrid polypeptide. The antigen presentation enhancing hybrid polypeptide includes the following elements: i) an N-terminal element consisting essentially of 4-16 residues of the mammalian Ii-Key peptide LRMKLPKPPKPVSKMR (SEQ ID NO: _____) and non-N-terminal deletion modifications thereof that retain antigen presentation enhancing activity; ii) a C-terminal element comprising an MHC Class II-presented epitope in the form of a polypeptide or peptidomimetic structure which binds to the antigenic peptide binding site of an MHC class II molecule, the MHC Class II-presented epitope being contained in the protein of interest of step a); and iii) an intervening peptidyl structure linking the N-terminal and C-terminal elements of the hybrid, the peptidyl structure having a length of about 20 amino acids or less.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMC	Draw. Des.
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☐ 8. Document ID: US 20040038338 A1

L2: Entry 8 of 70

File: PGPB..

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038338
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040038338 A1

TITLE: Influence of LRP cytoplasmic domain on Abeta production

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koo, Edward H.	La Jolla	CA	US	
Pietrzik, Claus	Nierstein		DE	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

A truncated dominant negative mammalian LDL receptor related protein (LRP) cytoplasmic tail mutant (LRP-CT) molecule and DNA sequences for its construction is described in this disclosure as is a method for disrupting generation of amyloid .beta.-protein (A.beta.). Methods for preventing or treating diseases wherein

amyloid .beta.-protein (A.beta.) is a major constituent of amyloid plaques or amyloidosis by interfering with production of A.beta. are described, as is a high throughput assay for screening compounds that inhibit A.beta. production. Also described is a method for inhibiting LRP or APP:Fe65 interaction in vivo, and kit suitable for providing the required reactants for screening assays.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Des
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☐ 9. Document ID: US 20040034199 A1

L2: Entry 9 of 70

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040034199
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040034199 A1

TITLE: Human pellino polypeptides

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A	Bainbridge Island		GB	
Cosman, David J.	Bainbridge Island		GB	

US-CL-CURRENT: 530/358; 435/199, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Des
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☐ 10. Document ID: US 20040002455 A1

L2: Entry 10 of 70

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002455
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002455 A1

TITLE: Targeted immunogens

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Uger, Robert Adam	Richmond Hill	CA	US	
Salha, Danielle	Toronto	NY	CA	
Barber, Brian	White Plains	NJ	US	

Morse, Clarence C.	Asbury	NJ	US
Guo, Yong	Freshmeadows	NJ	US
Cheng, Su	Bridgewater		US

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The present invention provides reagents and methods for producing and utilizing targeted immunogens. In preferred embodiments, an immunogen is conjugated to an amino acid sequence that targets the immunogen to the MHC presentation pathway. Using the reagents and methods provided herein, immunization protocols may be enhanced resulting in increased immunity of the host.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw. Des.
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☐ 11. Document ID: US 20030235575 A1

L2: Entry 11 of 70

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030235575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030235575 A1

TITLE: Identification of oligoadenylate synthetase-like genes

PUBLICATION-DATE: December 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Matzuk, Martin M.	Pearland	TX	US	
Bai, Yuchen	Newtown	PA	US	
Yan, Wei	Houston	TX	US	

US-CL-CURRENT: 424/94.61; 435/199, 435/320.1, 435/325, 435/6, 435/69.1, 536/23.2

ABSTRACT:

The present invention relates to compositions and methods for modulating conception in animals. More particularly, the composition modulates mRNA degradation during gametogenesis and early development. Yet further, the present invention relates to pharmaceutical compositions and methods for modulating diseases of the reproductive organs, such as hyperproliferative diseases.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw. Des.
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☐ 12. Document ID: US 20030229019 A1

L2: Entry 12 of 70

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229019

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229019 A1

TITLE: Compounds that selectively bind to expanded polyglutamine repeat domains and methods of use thereof

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Burke, James R.	Chapel Hill	NC	US	
Strittmatter, Warren J.	Durham	NC	US	
Nagai, Yoshitaka	Osaka		JP	

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 435/7.1, 514/44, 530/324, 536/23.1

ABSTRACT:

Compounds that selectively bind to expanded polyglutamine repeats are disclosed. Such compounds are characterized in that they bind to a first polyglutamine peptide consisting of 60 glutamine residues under conditions in which they do not bind to a second polyglutamine peptide consisting of 20 glutamine residues. Conjugates of such compounds, nucleic acids encoding the same, and methods of use thereof are also disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 13. Document ID: US 20030224444 A1

L2: Entry 13 of 70

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030224444

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030224444 A1

TITLE: Antibodies to native conformations of membrane proteins

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabbadini, Roger A.	Lakeside	CA	US	
Berkley, Neil	San Diego	CA	US	
Surber, Mark W.	Coronado	CA	US	

US-CL-CURRENT: 435/7.1; 435/326, 435/69.1, 530/387.1

ABSTRACT:

The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

☐ 14. Document ID: US 20030219859 A1

L2: Entry 14 of 70

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219859

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030219859 A1

TITLE: Transport proteins and their uses

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Surrey		GB	
Elliott, Gillian Daphne	Surrey		GB	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 514/12, 530/350, 536/23.5

ABSTRACT:

The present invention relates to transport proteins, in particular VP22 and homologues thereof, and to methods of delivering these proteins and any associated molecules to a target population of cells. This transport protein has applications in gene therapy and methods of targeting agents to cells where targeting at high efficiency is required.

☐ 15. Document ID: US 20030204069 A1

L2: Entry 15 of 70

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204069

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204069 A1

TITLE: Segments of the human gene for telomerase reverse transcriptase

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Morin, Gregg B.	Toronto	NV	CA	
Andrews, William H.	Reno		US	

US-CL-CURRENT: 536/23.2; 435/199, 435/320.1, 435/325, 435/456, 435/6, 435/69.1

ABSTRACT:

The invention provides compositions and methods related to human telomerase reverse

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.3&ref=2&dbname=PGPB,USPT,USOC...> 9/22/04

transcriptase (hTERT), the catalytic protein subunit of human telomerase. The polynucleotides and polypeptides of the invention are useful for diagnosis, prognosis and treatment of human diseases, for changing the proliferative capacity of cells and organisms, and for identification and screening of compounds and treatments useful for treatment of diseases such as cancers.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw. Desc
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☐ 16. Document ID: US 20030198626 A1

L2: Entry 16 of 70

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198626
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030198626 A1

TITLE: Inhibition of Ii expression in mammalian cells

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Xu, Minzhen	Northborough	MA	US	
Humphreys, Robert	Acton	MA	US	

US-CL-CURRENT: 424/93.21; 435/320.1, 435/366, 435/456, 435/69.1, 536/23.5

ABSTRACT:

The present invention is directed toward composition and methods involving the inhibition of Ii expression in cells for the purpose of altering antigen presentation pathways. More specifically, disclosed are compositions and methods which relate to MHC Class II molecule presentation of antigenic epitopes which, under normal circumstances, would not be presented in association with MHC Class II molecules. The invention relates to presentation in cells which normally express MHC Class II molecules, as well as cells which can be induced to express MHC Class II molecules.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw. Desc
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☐ 17. Document ID: US 20030194727 A1

L2: Entry 17 of 70

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030194727
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030194727 A1

TITLE: Phenotypic screen of chimeric proteins

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
------	------	-------	---------	---------

Kim, Jin-Soo	Yuseong-gu	KR
Park, Kyung-Soon	Yuseong-gu	KR
Lee, Dong-Ki	Yuseong-gu	KR
Seol, Wongi	Yuseong-gu	KR
Lee, Horim	Chungcheongnam-do	KR
Lee, Seong-Il	Yuseong-gu	KR
Yang, Hyo-Young	Yuseong-gu	KR
Lee, Yangsoon	Yuseong-gu	KR
Jang, Young-Soon	Yuseong-gu	KR

US-CL-CURRENT: 435/6; 435/219, 435/252.3, 435/254.2, 435/320.1, 435/325, 435/69.1, 435/7.2

ABSTRACT:

In one aspect, a library of nucleic acids that encode different artificial, chimeric proteins is screened to identify a chimeric protein that alters a phenotypic trait of a cell or organism. The chimeric protein can be identified without a priori knowledge of a particular target gene or pathway. Some chimeric proteins include multiple zinc finger domains and can induce, for example, thermotolerance, solvent-tolerance, altered cellular growth, insulin production, differentiation, and drug resistance.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMOC	Draw. Des.
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☐ 18. Document ID: US 20030175920 A1

L2: Entry 18 of 70

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175920

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175920 A1

TITLE: Cell-permeable peptide inhibitors of the JNK signal transduction pathway

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonny, Christophe	Morges		CH	

US-CL-CURRENT: 435/184; 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

The invention provides cell-permeable peptides that selectively block the branch of the JNK signaling pathway controlled by the islet-brain (IB) proteins. The provided cell-permeable peptides block the binding of intermediate kinases in the c-Jun amino terminal kinase (JNK) signaling pathway, thereby decreasing the downstream effects of c-Jun amino terminal kinase (JNK).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMOC	Draw. Des.
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☐ 19. Document ID: US 20030171318 A1

L2: Entry 19 of 70

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171318
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030171318 A1

TITLE: Composition and method for treating viral infection

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Morham, Scott	Salt Lake City	UT	US	
Zavitz, Kenton	Salt Lake City	UT	US	
Hobden, Adrian	Salt Lake City	UT	US	

US-CL-CURRENT: 514/44; 424/186.1, 435/6, 435/69.1, 514/12

ABSTRACT:

Methods for inhibiting virus propagation and treating virus infection are provided which include administering to cells infected with viruses a compound capable of inhibiting viral budding from the cells.

Full	Title	Citation	Front	Renew	Classification	Date	Reference	Sequences	Attachments	Claims	RWOC	Draw Desc
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☐ 20. Document ID: US 20030170871 A1

L2: Entry 20 of 70

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170871 A1

TITLE: Alphavirus-based vectors for persistent infection

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dubensky, Thomas W. JR.	Piedmont	CA	US	
Polo, John M.	Hayward	CA	US	
Perri, Silvia	Castro Valley	CA	US	
Belli, Barbara	San Diego	CA	US	

US-CL-CURRENT: 435/235.1; 424/93.21, 435/325, 435/456, 435/69.1, 536/23.72

ABSTRACT:

Isolated nucleic acid molecules are disclosed, comprising an alphavirus nonstructural protein 2 gene which, when operably incorporated into an alphavirus replicon particle, eukaryotic layered vector initiation system, alphavirus vector construct or

RNA vector replicon, provides a noncytopathic phenotype or confers the ability to establish persistent replication. Also disclosed are RNA vector replicons, alphavirus vector constructs, alphavirus replicon particles and eukaryotic layered vector initiation systems which contain the above-identified nucleic acid molecules, as well as methods of using such replicons, constructs, particles and eukaryotic layered vector initiation systems for expression of recombinant proteins.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 21. Document ID: US 20030166141 A1

L2: Entry 21 of 70

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166141
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030166141 A1

TITLE: Regulation of endogenous gene expression in cells using zinc finger proteins

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Case, Casey C.	San Mateo	CA	US	
Cox, George N. III	Louisville	CO	US	
Eisenberg, Stephen P.	Boulder	CO	US	
Liu, Qiang	Foster City	CA	US	
Rebar, Edward J.	El Cerrito	CA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/366, 435/456, 702/19

ABSTRACT:

The present invention provides methods for modulating expression of endogenous cellular genes using engineered zinc finger proteins.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 22. Document ID: US 20030166099 A1

L2: Entry 22 of 70

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166099
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030166099 A1

TITLE: Minicells comprising membrane proteins

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Sabbadini, Roger A.	Lakeside	CA	US
Surber, Mark W.	Coronado	CA	US
Berkley, Neil	San Diego	CA	US
Segall, Anca M.	San Diego	CA	US
Klepper, Robert	San Diego	CA	US

US-CL-CURRENT: 435/69.1; 435/325

ABSTRACT:

The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw. Des.
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☐ 23. Document ID: US 20030165945 A1

L2: Entry 23 of 70

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165945
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030165945 A1

TITLE: Human Pellino polypeptides

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge Island	WA	US	
Cosman, David J.	Bainbridge Island	WA	US	
Li, Xiaoxia	Solon	OH	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 435/7.1, 530/350, 536/23.5

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw. Des.
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☐ 24. Document ID: US 20030152945 A1

L2: Entry 24 of 70

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030152945
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030152945 A1

TITLE: Cell cycle progression proteins

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deak, Peter	Cambridge		GB	
Glover, David Moore	Sandy		GB	
Midgley, Carol	Milton Keynes		GB	

US-CL-CURRENT: 435/6; 435/183, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

Polynucleotides encoding a number of Drosophila gene products are provided. Polynucleotide probes derived from these nucleotide sequences, polypeptides encoded by the polynucleotides and antibodies that bind to the polypeptides are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Desc.
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☐ 25. Document ID: US 20030148265 A1

L2: Entry 25 of 70

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148265

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148265 A1

TITLE: Anti-viral conjugate comprising a factor allowing the translocation of a protein across a cell membrane and comprising a single-chain antibody fragment directed against a viral protein

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brooks, Timothy John Gilby	Wiltshire		GB	
Duggan, Jacqueline Marie	Wiltshire		GB	

US-CL-CURRENT: 435/5; 424/159.1, 435/235.1, 435/252.3, 435/320.1, 435/69.1, 530/388.3

ABSTRACT:

A protein conjugate comprising conjugate comprising a first region comprising a factor that permits translocation of a protein across a cell membrane; and a second region comprising a single-chain antibody fragment which has affinity for a viral protein, in particular a viral protein which is necessary for replication of a virus such as a flavivirus.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Desc.
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☐ 26. Document ID: US 20030143681 A1

L2: Entry 26 of 70

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143681
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143681 A1

TITLE: Human ataxin-1-like polypeptide IMX97018

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Anderson, Dirk M.	Seattle	WA	US	

US-CL-CURRENT: 435/69.1; 435/199, 435/254.2, 435/320.1, 435/325, 435/6, 536/23.2

ABSTRACT:

This invention relates to IMX97018, a new members of the human ataxin-1-like polypeptide family, methods of making such polypeptides, and to methods of using them to diagnose and treat neurological conditions and to identify compounds that alter IMX97018 polypeptide activities.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw. Des.
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☐ 27. Document ID: US 20030119771 A1

L2: Entry 27 of 70

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119771
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119771 A1

TITLE: Modulators of bone homeostasis identified in a high-throughput screen

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rompaey, Luc Van	Keerbergen		BE	
Van Es, Helmuth Hendrikus Gerardus	Haarlem		NL	
Tomme, Peter Herwig Maria	Gent		BE	
Klaassen, Hubertus Johannes Matheus	Herent		BE	

US-CL-CURRENT: 514/44; 435/226, 435/320.1, 435/366, 435/6, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The invention relates to the field of molecular genetics and medicine. In particular, the present invention relates to the field of functional genomics, i.e., to a method for the identification of genes that function in regulating bone homeostasis, such as

the induction of osteogenesis.

In particular, the present invention relates to polynucleotides and the encoded polypeptides that are identified in a high-throughput screen designed to detect modulation of bone alkaline phosphatase activity. Moreover, the present invention relates to vectors, host cells, antibodies and diagnostic methods for detecting diseases involving the discovered polynucleotides, and therapeutic methods for treating such diseases. The invention further relates to methods and means for drug compound screens designed to develop new therapeutic strategies.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 28. Document ID: US 20030118611 A1

L2: Entry 28 of 70

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118611

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030118611 A1

TITLE: Immunological herpes simplex virus antigens and methods for use thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koelle, David M.	Seattle	WA	US	
Corey, Lawrence	Seattle	WA	US	

US-CL-CURRENT: 424/231.1; 424/186.1, 424/192.1, 424/199.1, 435/235.1, 435/320.1, 435/69.1, 435/69.7, 530/350, 536/23.72

ABSTRACT:

The invention provides HSV antigens that are useful for the prevention and treatment of HSV infection. Disclosed herein are antigens and/or their constituent epitopes confirmed to be recognized by T-cells derived from herpetic lesions or from uterine cervix. T-cells having specificity for antigens of the invention have demonstrated cytotoxic activity against cells loaded with virally-encoded peptide epitopes, and in many cases, against cells infected with HSV. The identification of immunogenic antigens responsible for T-cell specificity provides improved anti-viral therapeutic and prophylactic strategies. Compositions containing antigens or polynucleotides encoding antigens of the invention provide effectively targeted vaccines for prevention and treatment of HSV infection.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 29. Document ID: US 20030108886 A1

L2: Entry 29 of 70

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108886

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030108886 A1

TITLE: Autogene nucleic acids encoding a secretable RNA polymerase

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Finn, John	Vancouver		CA	
MacLachlan, Ian	Vancouver		CA	

US-CL-CURRENT: 435/6; 435/199, 435/252.3, 435/320.1, 435/69.1, 514/44, 536/23.2

ABSTRACT:

This invention provides methods, nucleic acids, compounds, and compositions for expressing a product of interest in a cell that involve a secretable RNA Polymerase.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 30. Document ID: US 20030108880 A1

L2: Entry 30 of 70

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030108880

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030108880 A1

TITLE: Modified zinc finger binding proteins

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rebar, Edward	El Cerrito	CA	US	
Jamieson, Andrew	San Francisco	CA	US	

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

Disclosed herein are compositions and method comprising non-canonical (e.g., non-C2H2) zinc finger proteins.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 31. Document ID: US 20030104526 A1

L2: Entry 31 of 70

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104526

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030104526 A1

TITLE: Position dependent recognition of GNN nucleotide triplets by zinc fingers

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Liu, Qiang	Foster City	CA	US	

US-CL-CURRENT: 435/69.1; 435/226, 435/320.1, 435/325, 435/6, 536/23.2

ABSTRACT:

The specificity of binding of a zinc finger to a triplet or quadruplet nucleotide target subsite depends upon the location of the zinc finger in a multifinger protein and, hence, upon the location of its target subsite within a larger target sequence. The present disclosure provides zinc finger amino acid sequences for recognition of triplet target subsites having the nucleotide G in the 5'-most position of the subsite, that have been optimized with respect to the location of the subsite within the target site. Accordingly, the disclosure provides finger position-specific amino acid sequences for the recognition of GNN target subsites. This allows the construction of multi-finger zinc finger proteins with improved affinity and specificity for their target sequences, as well as enhanced biological activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 32. Document ID: US 20030103992 A1

L2: Entry 32 of 70

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030103992

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030103992 A1

TITLE: Clasp membrane proteins

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Garman, Jonathan David	San Jose	CA	US	
Candia, Albert F. III	Menlo Park	CA	US	

US-CL-CURRENT: 424/185.1; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

The present invention relates to cell surface molecules, designated cadherin-like asymmetry proteins ("CLASPs"). In particular, it relates to CLASP polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP function.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 33. Document ID: US 20030100093 A1

L2: Entry 33 of 70

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100093
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030100093 A1

TITLE: Human telomerase catalytic subunit: diagnostic and therapeutic methods

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cech, Thomas R.	Boulder	CO	US	
Lingner, Joachim	Pl. Croix-Blanche	CO	CH	
Nakamura, Toru	Boulder	CA	US	
Chapman, Karen B.	Sausalito	CA	US	
Morin, Gregg B.	Davis	CA	US	
Harley, Calvin B.	Palo Alto	CA	US	
Andrews, William H.	Richmond		US	

US-CL-CURRENT: 435/199; 435/320.1, 435/325, 435/368, 435/69.1, 536/23.2

ABSTRACT:

The present invention is directed to cells comprising a recombinant polynucleotide sequence that encodes a telomerase reverse transcriptase protein, variant, or fragment having telomerase catalytic activity when complexed with a telomerase RNA.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. Des.
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☐ 34. Document ID: US 20030096344 A1

L2: Entry 34 of 70

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096344
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030096344 A1

TITLE: Human telomerase catalytic subunit: diagnostic and therapeutic methods

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cech, Thomas R.	Boulder	CO	US	
Lingner, Joachim	Pl. Croix-Blanche 25	CO	CH	
Nakamura, Toru	Boulder	CA	US	
Chapman, Karen B.	Sausalito	CA	US	
Morin, Gregg B.	Davis	CA	US	
Harley, Calvin B.	Palo Alto	CA	US	

US-CL-CURRENT: 435/69.1; 424/146.1, 435/199, 435/320.1, 435/325

ABSTRACT:

The present invention is directed to pharmaceutical compositions comprising a telomerase reverse transcriptase polypeptide or a polypeptide homologous to a telomerase reverse transcriptase. The present invention is also directed to pharmaceutical compositions comprising a polynucleotide encoding either of the aforesaid polypeptides. The present invention is further directed to methods for eliciting an immune response to telomerase reverse transcriptase in a subject.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 35. Document ID: US 20030087411 A1

L2: Entry 35 of 70

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087411

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087411 A1

TITLE: Death associated kinase containing ankyr in repeats (DAKAR) and methods of use

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge Island	WA	US	
Holland, Pamela M.	Seattle	WA	US	
Peschon, Jacques J.	Seattle	WA	US	
Virca, George D.	Bellevue	WA	US	

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

This invention relates to DAKAR, a new member of the serine/threonine kinase family, methods of making such polypeptides, and to methods of using them to treat conditions associated with apoptosis and epithelial proliferation and differentiation, as well as methods to identify compounds that alter DAKAR-associated cellular activities.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 36. Document ID: US 20030077827 A1

L2: Entry 36 of 70

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077827

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030077827 A1

TITLE: Surface transfection and expression procedure

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Uhler, Michael D.	Ann Arbor	MI	US	

US-CL-CURRENT: 435/455; 435/325, 435/6, 435/69.1

ABSTRACT:

The present invention relates to a method of transfecting cells comprising applying cells directly onto nucleic acids which are immobilized in transfection complexes on a surface and which transfect the cells. Preferably, the nucleic acids are immobilized in an array. In another aspect of the present invention, the method further includes expression of the nucleic acids in the transfected cells. In yet another aspect of the present invention, the method further comprises detecting the expression of the nucleic acids in the transfected cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 37. Document ID: US 20030068675 A1

L2: Entry 37 of 70

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030068675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030068675 A1

TITLE: Position dependent recognition of GNN nucleotide triplets by zinc fingers

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Liu, Qiang	Foster City	CA	US	

US-CL-CURRENT: 435/69.1; 435/226, 435/6, 702/19

ABSTRACT:

The specificity of binding of a zinc finger to a triplet or quadruplet nucleotide target subsite depends upon the location of the zinc finger in a multifinger protein and, hence, upon the location of its target subsite within a larger target sequence. The present disclosure provides zinc finger amino acid sequences for recognition of triplet target subsites having the nucleotide G in the 5'-most position of the subsite, that have been optimized with respect to the location of the subsite within the target site. Accordingly, the disclosure provides finger position-specific amino acid sequences for the recognition of GNN target subsites. This allows the construction of multi-finger zinc finger proteins with improved affinity and specificity for their target sequences, as well as enhanced biological activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 38. Document ID: US 20030049602 A1

L2: Entry 38 of 70

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049602

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049602 A1

TITLE: Inhibitors of microbial gene expression replication and pathogenesis

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schaffer, Priscilla A.	Boston	MA	US	
Schang, Luis M.	Edmonton	PA	CA	
Jordan, Robert	Erdenheim		US	

US-CL-CURRENT: 435/5; 424/229.1, 435/345, 435/69.1, 435/91.1

ABSTRACT:

The invention relates to the identification of cdk inhibitors as inhibitors of microbial gene expression, replication and reactivation. Compositions and assays for the identification and use of such inhibitors are provided as are methods of use of the inhibitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 39. Document ID: US 20030044404 A1

L2: Entry 39 of 70

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044404

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044404 A1

TITLE: Regulation of angiogenesis with zinc finger proteins

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rebar, Edward	El Cerrito	CA	US	
Jamieson, Andrew	San Francisco	CA	US	
Liu, Qiang	Foster City	CA	US	
Liu, Pei-Qi	Richmond	CA	US	
Wolffe, Alan	Orinda	CA	US	
Eisenberg, Stephen P.	Boulder	CO	US	
Jarvis, Eric	Boulder	CO	US	

US-CL-CURRENT: 424/94.63; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.3&ref=2&dbname=PGPB,USPT,USOC...> 9/22/04

ABSTRACT:

Provided herein are a variety of methods and compositions for regulating angiogenesis, such methods and compositions being useful in a variety of applications where modulation of vascular formation is useful, including, but not limited to, treatments for ischemia and wound healing. Certain of the methods and compositions accomplish this by using various zinc finger proteins that bind to particular target sites in one or more VEGF genes. Nucleic acids encoding the zinc finger proteins are also disclosed. Methods for modulating the expression of one or more VEGF genes with the zinc finger proteins and nucleic acids are also disclosed. Such methods can also be utilized in a variety of therapeutic applications that involve the regulation of endothelial cell growth. Pharmaceutical compositions including the zinc finger proteins or nucleic acids encoding them are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 40. Document ID: US 20030040038 A1

L2: Entry 40 of 70

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040038

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040038 A1

TITLE: INDUCIBLE REGULATORY SYSTEM AND USE THEREOF

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
DOWDY, STEVEN F.	CLAYTON	MO	US	
JESSEE, JOEL A.	MOUNT AIRY	MD	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455

ABSTRACT:

The present invention provides an inducible regulatory system in which transcription of a target nucleotide sequence in a host cell is activated by the introduction of a fusion protein having a transcription activator region and a protein transduction domain for entry of the fusion protein into the cell.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 41. Document ID: US 20030036163 A1

L2: Entry 41 of 70

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036163

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036163 A1

TITLE: Novel PN9826 nucleic acids and use thereof

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	
Mauck, Kimberly A.	Sandy	UT	US	

US-CL-CURRENT: 435/69.1; 435/183, 435/320.1, 435/325, 530/350, 536/23.2

ABSTRACT:

Novel PN9826 protein and nucleic acids encoding PN9826 are provided. PN9826-containing protein complexes formed by PN9826 and a PN9826-interacting protein (e.g., LTBP1) are also provided. LTBP1 and PN9826 may be involved in common biological processes such as angiogenesis, metastasis, and cell growth and adhesion. Thus, the protein complexes as well as PN9826 can be used in screening assays to select modulators of PN9826 and the protein complexes formed by PN9826 and LTBP1. The identified modulators can be useful in modulating the functions and activities of PN9826 and protein complexes containing PN9826.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Des.
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☐ 42. Document ID: US 20030008324 A1

L2: Entry 42 of 70

File: PGPB

Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030008324

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030008324 A1

TITLE: Caspase-7-interacting protein and use thereof

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartel, Paul	Salt Lake City	UT	US	

US-CL-CURRENT: 435/7.1; 435/226, 435/320.1, 435/325, 435/69.1, 435/69.7

ABSTRACT:

Protein complexes are provided comprising Caspase-7 and a Caspase-7-interacting protein. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with Caspase-7 and the Caspase-7-interacting protein. In addition, methods for detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Des.
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☐ 43. Document ID: US 20020177152 A1

L2: Entry 43 of 70

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177152
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020177152 A1

TITLE: COX 1-interacting proteins and use thereof

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	

US-CL-CURRENT: 435/6; 435/189, 435/320.1, 435/325, 435/69.1

ABSTRACT:

Protein complexes are provided comprising COX1 and one or more proteins selected from the group consisting of THR S14 and Opal. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or preventing diseases and disorders associated with COX1 and its interacting partner proteins. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 44. Document ID: US 20020173026 A1

L2: Entry 44 of 70

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173026
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020173026 A1

TITLE: Survivin-interacting proteins and use thereof

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	
Cimbora, Daniel	Salt Lake City	UT	US	

US-CL-CURRENT: 435/199; 435/226, 435/320.1, 435/325, 435/69.1

ABSTRACT:

Protein complexes are provided comprising survivin and one or more proteins selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT. The protein complexes are useful in screening assays for identifying compounds effective in modulating the protein complexes and in treating and/or

preventing diseases and disorders associated with survivin and its interacting partner proteins. In addition, methods of detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 45. Document ID: US 20020169283 A1

L2: Entry 45 of 70

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169283

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020169283 A1

TITLE: Clasp-7 transmembrane protein

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Garman, Jonathan David	San Jose	CA	US	
Candia, Albert F. III	Menlo Park	CA	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

ABSTRACT:

The present invention relates to a cell surface molecule, designated cadherin-like asymmetry protein-7 ("CLASP-7"). In particular, it relates to CLASP-7 polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-7 function.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 46. Document ID: US 20020168683 A1

L2: Entry 46 of 70

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168683

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168683 A1

TITLE: Human pellino polypeptides

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge Island	WA	US	

US-CL-CURRENT: 435/7.1; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 47. Document ID: US 20020155432 A1

L2: Entry 47 of 70

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155432

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155432 A1

TITLE: Genetically engineered herpes virus for the treatment of cardiovascular disease

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schwartz, Lewis B.	Hinsdale	IL	US	
Weichselbaum, Ralph R.	Chicago	IL	US	
Roizman, Bernard	Chicago	IL	US	

US-CL-CURRENT: 435/5; 424/199.1, 424/205.1, 424/229.1, 435/320.1, 435/69.1

ABSTRACT:

The present invention provides methods of expressing a nucleic acid or producing a proteinaceous composition encoded by a nucleic acid in vascular and cardiovascular cells by administration of a herpesvirus vector. The present invention provides methods of producing a therapeutic benefit in vascular and cardiovascular tissue by administration of a herpesvirus vector. In additional aspects, the invention concerns combination therapies for vascular and cardiovascular diseases comprising administration of a herpesvirus vector and treatment with at least one additional pharmacological agent or surgical procedure.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 48. Document ID: US 20020146788 A1

L2: Entry 48 of 70

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146788

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020146788 A1

TITLE: Artificial endonuclease

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Franklin, Sonya	Iowa City	IA	US	

US-CL-CURRENT: 435/183; 435/320.1, 435/325, 435/6, 435/69.1

ABSTRACT:

The present invention provides artificial endonucleases and methods to prepare and use those endonucleases.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 49. Document ID: US 20020106676 A1

L2: Entry 49 of 70

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106676

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020106676 A1

TITLE: Protein-protein interactions in neurodegenerative diseases

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roch, Jean-Marc	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/368, 435/69.1, 536/23.2

ABSTRACT:

The present invention relates to the discovery of protein-protein interactions that are involved in the pathogenesis of neurodegenerative disorders, including Alzheimer's disease (AD). Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of neurodegenerative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 50. Document ID: US 20020102267 A1

PGPUB-DOCUMENT-NUMBER: 20020102267
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020102267 A1

TITLE: CLASP-5 transmembrane protein

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Garman, Jonathan D.	San Jose	CA	US	
Candia, Albert F. III	Menlo Park	CA	US	

US-CL-CURRENT: 424/185.1; 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

The present invention relates to a cell surface molecule, designated cadherin-like asymmetry protein-5 ("CLASP-5"). In particular, it relates to CLASP-5 polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-5 function.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Des
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☐ 51. Document ID: US 20020086382 A1

L2: Entry 51 of 70

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086382
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020086382 A1

TITLE: Clasp-3 transmembrane protein

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Garman, Jonathan D.	San Jose	CA	US	
Candia, Albert F. III	Menlo Park	CA	US	

US-CL-CURRENT: 435/183; 435/320.1, 435/325, 435/69.1, 536/23.2

ABSTRACT:

The present invention relates to a cell surface molecule, designated cadherin-like asymmetry protein-3 ("CLASP-3"). In particular, it relates to CLASP-3 polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-3

function.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMD	Draw. Des.
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☐ 52. Document ID: US 20020086361 A1

L2: Entry 52 of 70

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086361

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086361 A1

TITLE: Modulators of antiestrogen pharmacology

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Montano, Monica	Shaker Heights	OH	US	
Sutton, Amelia	Cleveland Heights	OH	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/456, 435/458, 530/350, 536/23.5

ABSTRACT:

A protein, designated ERCoA3 is provided. The ERCoA3 protein interacts with the estrogen receptor and the progesterone receptor and causes activation of these receptors is provided. Also provided are polynucleotides which encode ERCoA3 or block translation of the mRNA which encodes ERCoA3. Antibodies that bind to one or more epitopes in the human ERCoA3 protein are provided. The present invention also relates to methods of inhibiting or reducing tamoxifen or estrogen induced proliferation of cancer cells, particularly breast cancer cells, endometrial cancer cells and uterine cancer cells. The method comprises reducing the activity or levels of ERCoA3 in such.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMD	Draw. Des.
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☐ 53. Document ID: US 20020061296 A1

L2: Entry 53 of 70

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020061296

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020061296 A1

TITLE: Delivery method for the tumor specific apoptosis inducing activity of apoptin

PUBLICATION-DATE: May 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Noteborn, Mathieu H.M.	Leiderdrop		NL	
Voorhoeve, Pieter M.	Amsterdam		NL	

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.3&ref=2&dbname=PGPB,USPT,USOC...> 9/22/04

Zhang, Ying-Hui
Leliveld, Sirik R.

Leiden
Leiden

NL
NL

US-CL-CURRENT: 424/93.21; 424/94.63, 435/226, 435/320.1, 435/325, 435/69.1

ABSTRACT:

The invention relates to the field of apoptosis. The invention provides novel therapeutic substances, for example novel therapeutic proteinaceous compounds that can contain apoptin alone or jointly with other proteinaceous protein or protein fragments, especially in those cases when cells are derailed such as cancer-, auto-immune-derived cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 54. Document ID: US 20020039765 A1

L2: Entry 54 of 70

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020039765

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020039765 A1

TITLE: Transport proteins and their uses

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Surrey		GB	
Elliott, Gillian Daphne	Surrey		GB	

US-CL-CURRENT: 435/69.7; 435/320.1, 435/325, 435/471, 435/472, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The present invention relates to transport proteins, in particular VP22 and homologues thereof, and to methods of delivering these proteins and any associated molecules to a target population of cells. This transport protein has applications in gene therapy and methods of targeting agents to cells where targeting oat high efficiency is required.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 55. Document ID: US 20020001805 A1

L2: Entry 55 of 70

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020001805

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020001805 A1

TITLE: Immunogenic ovarian cancer genes

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roden, Richard Bruce	Washington	DC	US	
Naora, Honami	Baltimore	MD	US	

US-CL-CURRENT: 435/6; 435/325, 435/69.1, 435/7.23, 530/350, 536/23.5

ABSTRACT:

The present invention is based on the discovery of autoantibodies in cancer patients specific for a number of antigens that are normally intracellular, including homeobox protein HOXA7, homeobox protein HOXB7, ADP-ribosylation factor 1 (Arf-1), ATP-dependent iron transporter ABC-7, and a novel protein encoded by a EcoRI/XhoI fragment of bacteriophage .lambda. clone 44B.1 deposited under ATCC accession No. [N]. The presence of these autoantibodies can be correlated with neoplastic processes in patients, and therefore detection of autoantibodies (or detection of expression of the antigens by other means) can be used as a component of a cancer screening program. The present invention provides such screening assays. In addition, the studies leading to the identification of the predictive autoantigens have also succeeded in identifying a hitherto unknown antigen that is disclosed herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw Des
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☐ 56. Document ID: US 6780986 B1

L2: Entry 56 of 70

File: USPT

Aug 24, 2004

US-PAT-NO: 6780986

DOCUMENT-IDENTIFIER: US 6780986 B1

TITLE: RIP60 nucleic acid and polypeptide sequences and uses therefor

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heintz; Nicholas H.	Jericho	VT		
Houchens; Christopher R.	Baltimore	MD		

US-CL-CURRENT: 536/23.5; 435/455, 435/69.1, 435/71.1, 435/91.4, 536/23.1

ABSTRACT:

The invention relates to nucleic acids and encoded polypeptides from the human zinc finger protein RIP60. The invention provides, inter alia, isolated nucleic acid molecules, expression vectors containing those molecules and host cells transfected with those molecules. The invention also provides isolated proteins and peptides, fragments of the foregoing including functional fragments and variants. Kits containing the foregoing molecules additionally are provided.

7 Claims, 6 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGS	Draw. Des.
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☐ 57. Document ID: US 6777185 B2

L2: Entry 57 of 70

File: USPT

Aug 17, 2004

US-PAT-NO: 6777185
DOCUMENT-IDENTIFIER: US 6777185 B2

TITLE: Functional genomics using zinc finger proteins

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Case; Casey C.	San Mateo	CA		
Zhang; Lei	Davis	CA		
Urnov; Fyodor	Richmond	CA		

US-CL-CURRENT: 435/6; 435/320.1, 435/69.1, 536/23.1, 536/23.4

ABSTRACT:

The present invention provides methods of regulating gene expression using recombinant zinc finger proteins, for functional genomics and target validation applications.

53 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGS	Draw. Des.
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☐ 58. Document ID: US 6723512 B2

L2: Entry 58 of 70

File: USPT

Apr 20, 2004

US-PAT-NO: 6723512
DOCUMENT-IDENTIFIER: US 6723512 B2

TITLE: METHODS USING GENETIC PACKAGE DISPLAY FOR DETECTING AND IDENTIFYING PROTEIN-PROTEIN INTERACTIONS THAT FACILITATE INTERNALIZATION AND TRANSGENE EXPRESSION AND CELLS OR TISSUES COMPETENT FOR THE SAME AND METHODS FOR EVOLVING GENE DELIVERY VECTORS

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larocca; David	Encinitas	CA		

Kassner; Paul San Mateo CA
Baird; Andrew San Diego CA

US-CL-CURRENT: 435/6; 435/320.1, 435/5, 435/69.1, 435/DIG.14, 435/DIG.15, 435/DIG.2,
435/DIG.35, 435/DIG.4, 536/23.1

ABSTRACT:

A genetic package display system and methodology for probing protein-protein interactions that lead to cell transduction, selecting and/or identifying internalizing ligands, target cells and tissues which internalize known or putative ligands, and cell transduction facilitating peptides is provided. A ligand displaying genetic package that carries a selectable marker (e.g., reporter, selection, etc.) and presents a ligand on its surface is utilized to identify internalizing ligands, transduction facilitating peptides, and/or a variety of cells and tissue types for the ability to be successfully transduced by the ligand displaying genetic package. Also provided are methods for evolving a ligand displaying package to facilitate gene delivery or delivery of any desired agent (e.g., pharmaceutical, polypeptide, peptide, etc.) into a cell and/or targeting cellular compartments such as the nucleus, endosome, chloroplast, mitochondria, etc.

33 Claims, 21 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

Full	Title	Citation	Front	Reform	Classification	Date	Reference			Claims	RMAC	Draw Des
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☐ 59. Document ID: US 6703487 B2

L2: Entry 59 of 70

File: USPT

Mar 9, 2004

US-PAT-NO: 6703487
DOCUMENT-IDENTIFIER: US 6703487 B2

TITLE: Human pellino polypeptides

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bird; Timothy A.	Seattle	WA		
Cosman; David J.	Seattle	WA		

US-CL-CURRENT: 530/350; 435/252.3, 435/254.11, 435/254.2, 435/325, 435/69.1, 530/324,
530/351, 536/23.5

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

9 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 60. Document ID: US 6660259 B2

L2: Entry 60 of 70

File: USPT

Dec 9, 2003

US-PAT-NO: 6660259

DOCUMENT-IDENTIFIER: US 6660259 B2

TITLE: Herpes simplex virus for treating unwanted hyperproliferative cell growth

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laquerre; Sylvie	Walnut Creek	CA		
Hermiston; Terry	Corte Madera	CA		

US-CL-CURRENT: 424/93.2; 435/320.1, 435/325, 435/69.1, 435/91.41

ABSTRACT:

The present invention relates to pharmaceutical compositions, kits, and methods of use thereof, comprising, a mutant human herpes simplex-type 1 virus, which is cytopathic to susceptible hyperproliferative cells, such as neoplastic cells. Preferably, the virus does not produce a fully functionally active wild-type ICPO polypeptide coded for the IE gene 1.

15 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

☐ 61. Document ID: US 6653102 B2

L2: Entry 61 of 70

File: USPT

Nov 25, 2003

US-PAT-NO: 6653102

DOCUMENT-IDENTIFIER: US 6653102 B2

TITLE: Nucleic acid encoding a phosphatase 2C that interacts with Fe 65

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roch; Jean-Marc	Salt Lake City	UT		
Bartel; Paul L.	Salt Lake City	UT		
Heichman; Karen	Salt Lake City	UT		
Mauck; Kimberly	Sandy	UT		
Dufford; Max	Salt Lake City	UT		

US-CL-CURRENT: 435/69.1; 435/183, 435/252.3, 435/254.11, 435/254.2, 435/320.1,
435/325, 536/23.5

ABSTRACT:

The present invention relates to the discovery of protein--protein interactions that are involved in the pathogenesis of neurodegenerative disorders, including Alzheimer's disease (AD). Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of neurodegenerative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

4 Claims, 0 Drawing figures
Exemplary Claim Number: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Des
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☐ 62. Document ID: US 6649158 B1

L2: Entry 62 of 70

File: USPT

Nov 18, 2003

US-PAT-NO: 6649158
DOCUMENT-IDENTIFIER: US 6649158 B1

TITLE: Methods and compositions to induce antitumor response

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LaFace; Drake M.	San Diego	CA		

US-CL-CURRENT: 424/93.2; 435/320.1, 435/325, 435/69.1, 435/83

ABSTRACT:

The present invention provides compositions which are engineered to induce killing of tumor cells and concomitantly mobilize differentiate, activate and attract dendritic cells through the expression of cytokines and dendritic cell chemoattractants. The present invention induces multiple stages of dendritic cell differentiation, activation and migration in vivo using gene therapy delivery systems. Moreover, this invention describes the rational design of utilizing viral vectors (preferred vector is rAd) for multiple administrations of targeted delivery to dendritic cells which can promote differentiation and activation of the transduced dendritic cells (thus augmenting in vivo stimulation of T cells, NK cells and B cells. The present invention provides a method to induce an antitumor immune response through the use of such compositions.

5 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw Des
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☐ 63. Document ID: US 6635244 B2

L2: Entry 63 of 70

File: USPT

Oct 21, 2003

US-PAT-NO: 6635244

DOCUMENT-IDENTIFIER: US 6635244 B2

TITLE: Adenovirus E1B-55K single amino acid mutants and methods of use

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shen; Yuqiao	Richmond	CA		
Nye; Julie	Berkeley	CA		
Hermiston; Terry	Corte Madera	CA		

US-CL-CURRENT: 424/93.2; 424/93.1, 424/93.6, 435/235.1, 435/320.1, 435/455, 435/456, 435/69.1, 435/91.4, 435/91.41, 536/23.1

ABSTRACT:

Adenoviral mutants are described that have single amino acid mutations in the E1B-55K protein which mutations effect the p53 binding/inactivation and the late functions of the E1B-55K protein in a manner that enhances the efficacy of such viruses for treating cancer when compared to adenoviral mutants that have the E1B-55K region deleted.

7 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 64. Document ID: US 6485977 B1

L2: Entry 64 of 70

File: USPT

Nov 26, 2002

US-PAT-NO: 6485977

DOCUMENT-IDENTIFIER: US 6485977 B1

TITLE: Recombinant constructs and techniques for delivering to eucaryotic cells bacterial proteins that are secreted via type III secretion systems

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collmer; Alan	Ithaca	NY		
Beer; Steven V.	Ithaca	NY		

US-CL-CURRENT: 435/455; 435/320.1, 435/325, 435/456, 435/69.1, 435/69.7, 536/23.1, 536/23.4, 536/24.1

ABSTRACT:

The present invention relates to a method for delivering effector proteins into a target cell. This method involves introducing into the target cell an effector protein fused to a protein transduction domain of a human immunodeficiency virus TAT protein or derivatives or functional analogs thereof. The present invention also relates to a fusion protein including an effector protein fused to a protein transduction domain of a human immunodeficiency virus TAT protein or derivatives or functional analogs thereof. Another aspect of the present invention relates to a DNA construct including a first DNA molecule encoding an effector protein and a second DNA molecule operatively associated with the first DNA molecule and encoding a protein transduction domain of a human immunodeficiency virus TAT protein or derivatives or functional analogs thereof and its use in a method for delivering effector proteins into a target cell.

11 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMMC	Draw. Des.
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☐ 65. Document ID: US 6475789 B1

L2: Entry 65 of 70

File: USPT

Nov 5, 2002

US-PAT-NO: 6475789
DOCUMENT-IDENTIFIER: US 6475789 B1

TITLE: Human telomerase catalytic subunit: diagnostic and therapeutic methods

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cech; Thomas R.	Boulder	CO		
Lingner; Joachim	Epalinges			CH
Nakamura; Toru	Boulder	CO		
Chapman; Karen B.	Sausalito	CA		
Morin; Gregg B.	Palo Alto	CA		
Harley; Calvin B.	Palo Alto	CA		
Andrews; William H.	Richmond	CA		

US-CL-CURRENT: 435/366; 424/94.1, 435/320.1, 435/69.1, 536/23.2

ABSTRACT:

The invention provides compositions and methods related to human telomerase reverse transcriptase (hTERT), the catalytic protein subunit of human telomerase. The polynucleotides and polypeptides of the invention are useful for diagnosis, prognosis, and treatment of human diseases, for changing the proliferative capacity of cells and organisms, and for identification and screening of compounds and treatments useful for treatment of diseases such as cancers.

8 Claims, 40 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMOC	Draw Des
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☐ 66. Document ID: US 6472176 B2

L2: Entry 66 of 70

File: USPT

Oct 29, 2002

US-PAT-NO: 6472176

DOCUMENT-IDENTIFIER: US 6472176 B2

TITLE: Polynucleotide encoding chimeric protein and related vector, cell, and method of expression thereof

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kovesdi; Imre	Rockville	MD		
Bruder; Joseph T.	Ijamsville	MD		

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 435/69.7, 435/69.8, 536/23.1, 536/23.2, 536/23.4, 536/23.5, 536/23.7, 536/24.1

ABSTRACT:

The invention pertains to a polynucleotide encoding a chimeric protein comprising an endoplasmic reticulum localization signal peptide, a transport moiety, and a moiety of interest, wherein the endoplasmic reticulum localization signal peptide, the transport moiety, and the moiety of interest are operably linked with each other, a vector comprising the polynucleotide, a cell comprising such a vector, and a method of expressing a protein comprising the transport moiety and the moiety of interest.

25 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMOC	Draw Des
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☐ 67. Document ID: US 6451579 B1

L2: Entry 67 of 70

File: USPT

Sep 17, 2002

US-PAT-NO: 6451579

DOCUMENT-IDENTIFIER: US 6451579 B1

TITLE: Regulated expression of recombinant proteins using RNA viruses

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessee; Joel A.	Mount Airy	MD		
Ciccarone; Valentina C.	Gaithersburg	MD		

US-CL-CURRENT: 435/235.1; 424/94.5, 435/15, 435/320.1, 435/440, 435/455, 435/6,
435/69.1, 514/44, 530/350

ABSTRACT:

The present invention describes cells and constructs for a regulated viral (e.g. alphavirus) expression system, where gene expression is controlled by controlling expression of replicases or nonstructural proteins and/or controlling the amount of such proteins introduced in a cell, which in turn regulates RNA replication and subsequently gene expression. Particularly, this system takes advantage of the high level expression of the alphavirus systems for recombinant protein production and allows for large scale applications without biosafety concerns.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Keyword	Draw Des
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☐ 68. Document ID: US 6413518 B1

L2: Entry 68 of 70

File: USPT

Jul 2, 2002

US-PAT-NO: 6413518

DOCUMENT-IDENTIFIER: US 6413518 B1

**** See image for Certificate of Correction ****

TITLE: Immunologically significant herpes simplex virus antigens and methods for identifying and using same

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koelle; David M.	Seattle	WA		
Chen; Hongbo	Shoreline	WA		
Corey; Lawrence	Mercer Island	WA		
Hosken; Nancy Ann	Seattle	WA		
McGowan; Patrick	Seattle	WA		
Fling; Steven P.	Bainbridge Island	WA		
Posavad; Christine M.	Seattle	WA		

US-CL-CURRENT: 424/186.1; 424/184.1, 424/192.1, 424/231.1, 435/69.1, 435/69.3,
435/91.1, 435/91.4, 536/23.5

ABSTRACT:

The invention provides HSV antigens that are useful for the prevention and treatment of HSV infection. Disclosed herein are epitopes confirmed to be recognized by T-cells derived from herpetic lesions. T-cells having specificity for antigens of the invention have demonstrated cytotoxic activity against cells loaded with virally-encoded peptide epitopes, and in many cases, against cells infected with HSV. The identification of immunogenic antigens responsible for T-cell specificity provides improved anti-viral therapeutic and prophylactic strategies. Compositions containing antigens or polynucleotides encoding antigens of the invention provide effectively targeted vaccines for prevention and treatment of HSV infection.

12 Claims, 56 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. Des.
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☐ 69. Document ID: US 6350572 B1

L2: Entry 69 of 70

File: USPT

Feb 26, 2002

US-PAT-NO: 6350572
DOCUMENT-IDENTIFIER: US 6350572 B1

TITLE: Interaction between cyclin D1 and steroid receptor coactivators and users thereof in assays

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bernards; Rene	Alcoude			NL
Zwijssen; Renate	Utrecht			NL

US-CL-CURRENT: 435/4, 435/41, 435/69.1, 435/69.4, 435/69.7, 435/7.1, 435/7.2, 435/7.21, 435/7.23, 435/7.8, 435/70.1, 435/70.3

ABSTRACT:

The present invention relates to the finding that cyclin D1 interacts in a ligand-independent fashion with coactivators of the SRC-1 family. The direct interaction of cyclin D1 enhances estrogen receptor (ER) mediated transcription and provides a novel target for the development of assays for substances which modulate the cell cycle. The invention provides assay methods for the prevention of growth of tumours, for assays for compounds useful in the prevention of tumours and compounds obtainable by such assays.

5 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw. Des.
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☐ 70. Document ID: US 6313269 B1

L2: Entry 70 of 70

File: USPT

Nov 6, 2001

US-PAT-NO: 6313269
DOCUMENT-IDENTIFIER: US 6313269 B1

TITLE: Tumor necrosis factor related receptor, TR6

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.3&ref=2&dbname=PGPB,USPT,USOC...> 9/22/04

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deen; Keith C.	Glenmore	PA		
Young; Peter R.	Lawrenceville	NJ		
Marshall; Lisa A.	Wyndmoor	PA		
Roshak; Amy K.	East Norriton	PA		
Tan; Kong B.	Philadelphia	PA		
Truneh; Alemseged	West Chester	PA		

US-CL-CURRENT: 530/350; 435/69.1

ABSTRACT:

TR6 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing TR6 polypeptides and polynucleotides in the design of protocols for the treatment of chronic and acute inflammation, arthritis, septicemia, autoimmune diseases (e.g. inflammatory bowel disease, psoriasis), transplant rejection, graft vs. host disease, infection, stroke, ischemia, acute respiratory disease syndrome, restenosis, brain injury, AIDS, Bone diseases, cancer, atherosclerosis, and Alzheimers disease, among others and diagnostic assays for such conditions.

2 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	MMIC	Draw. Desc.
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☐ 1. Document ID: US 20040157771 A1

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L4: Entry 1 of 79

File: PGPB

Aug 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040157771

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040157771 A1

TITLE: Rank-ligand-induced sodium/proton antiporter polypeptides

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge	WA	US	
Tometsko, Mark E.	Seattle	WA	US	
Dougall, William C.	Seattle	WA	US	
Mosley, Bruce A.	Seattle	WA	US	

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMOC	Drawn Des
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☐ 2. Document ID: US 20040151739 A1

L4: Entry 2 of 79

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040151739

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040151739 A1

TITLE: Use of a composition for the stimulation of nerve growth, the inhibition of scar tissue formation, the reduction of secondary damage and/or the accumulation of macrophages

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Monnier, Philippe P.	Tubingen		DE	
Mueller, Bernhard K.	Tubingen		DE	
Schwab, Jan	Tubingen		DE	

US-CL-CURRENT: 424/239.1; 514/12, 530/350

ABSTRACT:

The invention relates to the use of a composition, comprising a fusion protein and at least one transporter for the in-vivo inhibition of scar tissue formation, the in-vivo reduction of secondary damage and/or the in-vivo accumulation of macrophages. The fusion protein contains at least one binding domain for the transporter and at least one modulation domain for the covalent modification of small GTP-binding proteins. The transporter permits the uptake of the fusion protein in a target cell.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 3. Document ID: US 20040132969 A1

L4: Entry 3 of 79

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132969

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132969 A1

TITLE: Antibodies, peptides, analogs and uses thereof

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Melvin, William Thomas	Aberdeen		GB	
Thompson, William Douglas	Inverurie		GB	
Stirk, Christina Maureen	Stonghaven		GB	

US-CL-CURRENT: 530/350

ABSTRACT:

Fibrin degradation products stimulate cell proliferation and angiogenesis. The present invention provides peptides, analogs and antibodies which are useful in the modulation of fibrin fragment E activities such as modulation of cell proliferation.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 4. Document ID: US 20040132088 A1

L4: Entry 4 of 79

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132088

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040132088 A1

TITLE: Expression vectors encoding epitopes of target-associated antigens and methods for their design

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

NAME	CITY	STATE	COUNTRY	RULE-47
Simard, John J.L.	Vancouver	CA	CA	
Diamond, David C.	West Hills	CA	US	
Qiu, Zhiyong	Los Angeles	CA	US	
Lei, Xiang-Dong	West Hills		US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The invention disclosed herein is directed to methods of identifying a polypeptide suitable for epitope liberation including, for example, the steps of identifying an epitope of interest; providing a substrate polypeptide sequence including the epitope, wherein the substrate polypeptide permits processing by a proteasome; contacting the substrate polypeptide with a composition including the proteasome, under conditions that support processing of the substrate polypeptide by the proteasome; and assaying for liberation of the epitope. The invention further relates to vectors including a housekeeping epitope expression cassette and also vectors including epitope cluster regions. The housekeeping epitope(s) can be derived from a target-associated antigen. The housekeeping epitope can be liberatable, that is capable of liberation, from a translation product of the cassette by immunoproteasome processing. The invention also relates to a method of activating a T cell comprising contacting a substrate polypeptide with an APC and contacting the APC with a T cell.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 5. Document ID: US 20040115770 A1

L4: Entry 5 of 79

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040115770
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20040115770 A1

TITLE: Polypeptides for increasing mutant CFTR channel activity

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Robbins, Paul D.	Mt. Lebanon	PA	US	
Frizzell, Raymond	Pittsburgh	PA	US	
Mi, Zhibao	Pittsburgh	PA	US	
Sun, Fei	Warrendale	PA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/455, 530/350

ABSTRACT:

The present invention provides methods and compositions for enhancing channel activity to the mutant cystic fibrosis trans-membrane conductance regulator protein (CFTR). The compositions of the invention comprise polypeptides containing CFTR sub-domains that are designed to mimic the folding defect of the full length mutant CFTR proteins, resulting in competitive binding to cytoplasmic chaperones such as Hsc/Hsp70 and Hdj2. The methods of the invention comprise transduction, or

recombinant expression, of CFTR polypeptides in a cell expressing mutant CFTR. The presence of the CFTR polypeptide results in a dominant effect whereby the CFTR polypeptide competes with the endogenously expressed mutant CFTR for binding to cytoplasmic chaperones such as Hsc/Hsp70 and Hdj2. Mutant CFTR proteins include, but are not limited to, .DELTA.F508 CFTR. The present invention is based on the discovery that reduced binding of cytoplasmic chaperones to the endogenous .DELTA.F508 CFTR, mediated by the presence of CFTR polypeptides, results in restoration of plasma membrane localization and channel activity. The methods and compositions of the invention can be used to restore channel activity in cystic fibrosis subjects carrying genetic defects in the CFTR gene, such as for example, .DELTA.F508 CFTR.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw Des
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☐ 6. Document ID: US 20040072270 A1

L4: Entry 6 of 79

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072270
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072270 A1

TITLE: Cell-based fluorescence resonance energy transfer (FRET) assays for clostridial toxins

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fernandez-Salas, Ester	Fullerton	CA	US	
Steward, Lance E.	Irvine	CA	US	
Aoki, Kei Roger	Coto de Caza	CA	US	

US-CL-CURRENT: 435/7.32; 435/23, 530/350

ABSTRACT:

The present invention provides a method of determining clostridial toxin activity by (a) contacting with a sample a cell containing a clostridial toxin substrate that includes a donor fluorophore; an acceptor having an absorbance spectrum overlapping the emission spectrum of the donor fluorophore; and a clostridial toxin recognition sequence containing a cleavage site that intervenes between the donor fluorophore and the acceptor, where resonance energy transfer is exhibited between the donor fluorophore and the acceptor under the appropriate conditions; (b) exciting the donor fluorophore; and (c) determining resonance energy transfer of the contacted cell relative to a control cell, where a difference in resonance energy transfer of the contacted cell as compared to the control cell is indicative of clostridial toxin activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw Des
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☐ 7. Document ID: US 20040063907 A1

L4: Entry 7 of 79

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040063907
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040063907 A1

TITLE: Gene differentially expressed in breast and bladder cancer and encoded polypeptides

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zauderer, Maurice	Pittsford	NY	US	
Evans, Elizabeth E.	Rochester	NY	US	
Borrello, Melinda A.	Pittsford	NY	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

ABSTRACT:

The present invention relates to a novel human gene that is differentially expressed in human carcinoma. More specifically, the present invention relates to a polynucleotide encoding a novel human polypeptide named C35 that is overexpressed in human breast and bladder carcinoma. This invention also relates to C35 polypeptide, in particular C35 peptide epitopes and C35 peptide epitope analogs, as well as vectors, host cells, antibodies directed to C35 polypeptides, and the recombinant methods for producing the same. The present invention further relates to diagnostic methods for detecting carcinomas, including human breast carcinomas. The present invention further relates to the formulation and use of the C35 gene and polypeptides, in particular C35 peptide epitopes and C35 peptide epitope analogs, in immunogenic compositions or vaccines, to induce antibody or cell-mediated immunity against target cells, such as tumor cells, that express the C35 gene. The invention further relates to screening methods for identifying agonists and antagonists of C35 activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 8. Document ID: US 20040058881 A1

L4: Entry 8 of 79

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040058881
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040058881 A1

TITLE: Ii-key/antigenic epitope hybrid peptide vaccines

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Humphreys, Robert E.	Acton	MA	US	
Xu, Minzhen	Northborough	MA	US	

US-CL-CURRENT: 514/44; 435/320.1, 435/325, 435/6, 435/69.1, 530/350, 536/23.5

ABSTRACT:

Disclosed is a nucleic acid molecule comprising a first expressible sequence encoding a protein of interest or polypeptide of interest which contains an MHC Class II-presented epitope. In addition, the nucleic acid molecule comprises a second expressible nucleic acid sequence encoding an antigen presentation enhancing hybrid polypeptide. The antigen presentation enhancing hybrid polypeptide includes the following elements: i) an N-terminal element consisting essentially of 4-16 residues of the mammalian Ii-Key peptide LRMKLPKPPKPVSKMR (SEQ ID NO: _____) and non-N-terminal deletion modifications thereof that retain antigen presentation enhancing activity; ii) a C-terminal element comprising an MHC Class II-presented epitope in the form of a polypeptide or peptidomimetic structure which binds to the antigenic peptide binding site of an MHC class II molecule, the MHC Class II-presented epitope being contained in the protein of interest of step a); and iii) an intervening peptidyl structure linking the N-terminal and C-terminal elements of the hybrid, the peptidyl structure having a length of about 20 amino acids or less.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. Des.
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☐ 9. Document ID: US 20040038338 A1

L4: Entry 9 of 79

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038338

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038338 A1

TITLE: Influence of LRP cytoplasmic domain on Abeta production

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koo, Edward H.	La Jolla	CA	US	
Pietrzik, Claus	Nierstein		DE	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

ABSTRACT:

A truncated dominant negative mammalian LDL receptor related protein (LRP) cytoplasmic tail mutant (LRP-CT) molecule and DNA sequences for its construction is described in this disclosure as is a method for disrupting generation of amyloid .beta.-protein (A.beta.). Methods for preventing or treating diseases wherein amyloid .beta.-protein (A.beta.) is a major constituent of amyloid plaques or amyloidosis by interfering with production of A.beta. are described, as is a high throughput assay for screening compounds that inhibit A.beta. production. Also described is a method for inhibiting LRP or APP:Fe65 interaction in vivo, and kit suitable for providing the required reactants for screening assays.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. Des.
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☐ 10. Document ID: US 20040038303 A1

PGPUB-DOCUMENT-NUMBER: 20040038303
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040038303 A1

TITLE: Biologic modulations with nanoparticles

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Unger, Gretchen M.	Chaska	MN	US	

US-CL-CURRENT: 435/7.1; 530/350, 530/387.1, 530/396, 536/123

ABSTRACT:

Certain aspects of the invention relate to the use of small particles in biological systems, including the delivery of biologically active agents to cells or tissues using nanoparticles of less than about 200 nm in approximate diameter. Embodiments include collection of particles having a bioactive component, a surfactant molecule, a biocompatible polymer, and a cell recognition component, wherein the cell recognition component has a binding affinity for a cell recognition target. Compositions and methods of use are also set forth.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Des.
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☐ 11. Document ID: US 20040002455 A1

L4: Entry 11 of 79

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002455
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002455 A1

TITLE: Targeted immunogens

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Uger, Robert Adam	Richmond Hill	CA	US	
Salha, Danielle	Toronto	NY	CA	
Barber, Brian	White Plains	NJ	US	
Morse, Clarence C.	Asbury	NJ	US	
Guo, Yong	Freshmeadows	NJ	US	
Cheng, Su	Bridgewater		US	

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The present invention provides reagents and methods for producing and utilizing

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

targeted immunogens. In preferred embodiments, an immunogen is conjugated to an amino acid sequence that targets the immunogen to the MHC presentation pathway. Using the reagents and methods provided herein, immunization protocols may be enhanced resulting in increased immunity of the host.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw Des
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☐ 12. Document ID: US 20030235594 A1

L4: Entry 12 of 79

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030235594

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030235594 A1

TITLE: Ii-Key/antigenic epitope hybrid peptide vaccines

PUBLICATION-DATE: December 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Humphreys, Robert	Acton	MA	US	
Xu, Minzhen	Northborough	MA	US	

US-CL-CURRENT: 424/192.1; 435/320.1, 435/325, 435/69.3, 530/350, 536/23.5

ABSTRACT:

Disclosed is an antigen presentation enhancing hybrid polypeptide which includes three elements. The first element is an N-terminal element consisting essentially of 4-16 residues of the mammalian Ii-Key peptide LRMKLPKPPKPVSKMR (SEQ ID NO: _____) and non-N-terminal deletion modifications thereof that retain antigen presentation enhancing activity. The second element is a chemical structure covalently linking the N-terminal element described above to the MHC Class II-presented epitope described below. The chemical structure is a covalently joined group of atoms which when arranged in a linear fashion forms a flexible chain which extends up to the length of 20 amino acids likewise arranged in a linear fashion, the chemical structure being selected from the group consisting of: i) immunologically neutral chemical structures, ii) a MHC Class I epitope or a portion thereof, and/or iii) an antibody-recognized determinant or a portion thereof. Finally, the enhancing antigen presentation enhancing hybrid polypeptide includes a C-terminal element comprising an antigenic epitope in the form of a polypeptide or peptidomimetic structure which binds to the antigenic peptide binding site of an MHC class II molecule.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw Des
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☐ 13. Document ID: US 20030229202 A1

L4: Entry 13 of 79

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229202 A1

TITLE: Membrane penetrating peptides and uses thereof

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guo, Yong	Fresh Meadows	NY	US	
Morse, Clarence C.	Asbury	NJ	US	
Yao, Zhengbin	Sugar Land	TX	US	
Keesler, George A.	Hillsborough	NJ	US	

US-CL-CURRENT: 530/350; 435/455

ABSTRACT:

The present invention is directed to membrane penetrating peptides useful as in viv, ex vivo and in vitro intracellular delivery devices for compound of interest. More particularly, the invention involves identification of membrane penetrating peptides which may be used as protein carriers for delivery of a compound of interest to cells, to methods of delivering a compound of interest attached to membrane penetrating peptides to cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Des.
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☐ 14. Document ID: US 20030228634 A1

L4: Entry 14 of 79

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030228634

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030228634 A1

TITLE: Expression vectors encoding epitopes of target-associated antigens and methods for their design

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Simard, John J.L.	Vancouver	CA	CA	
Diamond, David C.	West Hills	CA	US	
Qiu, Zhiyong	Los Angeles	CA	US	
Lei, Xiang-Dong	West Hills		US	

US-CL-CURRENT: 435/7.2; 435/320.1, 530/350

ABSTRACT:

The invention disclosed herein is directed to methods of identifying a polypeptide suitable for epitope liberation including, for example, the steps of identifying an epitope of interest; providing a substrate polypeptide sequence including the epitope, wherein the substrate polypeptide permits processing by a proteasome; contacting the substrate polypeptide with a composition including the proteasome, under conditions that support processing of the substrate polypeptide by the

proteasome; and assaying for liberation of the epitope. The invention further relates to vectors including a housekeeping epitope expression cassette. The housekeeping epitope(s) can be derived from a target-associated antigen, and the housekeeping epitope can be liberatable, that is capable of liberation, from a translation product of the cassette by immunoproteasome processing. The invention also relates to a method of activating a T cell comprising contacting a substrate polypeptide with an APC and contacting the APC with a T cell.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 15. Document ID: US 20030220480 A1

L4: Entry 15 of 79

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030220480

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030220480 A1

TITLE: Cell-permeable peptide inhibitors of the JNK signal transduction pathway

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonny, Christophe	Morges		CH	

US-CL-CURRENT: 530/350

ABSTRACT:

The invention provides cell-permeable peptides that bind to JNK proteins and inhibit JNK-mediated effects in JNK-expressing cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 16. Document ID: US 20030220474 A1

L4: Entry 16 of 79

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030220474

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030220474 A1

TITLE: Conjugate of biodegradable aliphatic polyester with Tat49-57 peptide or peptide chain containing Tat49-57 peptide and nanoparticle manufactured using the same

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Park, Ju Young	Yongin-si		KR	
Nam, Yoon Sung	Yongin-si		KR	

Han, Sang Hoon Suwon-si KR
Chang, Ih Seop Yongin-si KR

US-CL-CURRENT: 530/350; 436/518, 436/531

ABSTRACT:

Conjugates of a biodegradable aliphatic polyester-based polymer with Tat.sub.49-57 peptide or a peptide chain containing the Tat.sub.49-57 peptide, and nanoparticles manufactured using the same. Intracellular permeability of the Tat.sub.49-57 peptide can be enhanced by exposing Tat peptide moieties to the surface of the nanoparticles.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 17. Document ID: US 20030220264 A1

L4: Entry 17 of 79

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030220264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030220264 A1

TITLE: Reversible modification of membrane interaction

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rozema, David B.	Madison	WI	US	
Wakefield, Darren	Madison	WI	US	
Wolff, Jon A.	Madison	WI	US	
Ekena, Kirk	Madison	WI	US	
Hagstrom, James E.	Middleton	WI	US	

US-CL-CURRENT: 514/12; 530/350, 530/406

ABSTRACT:

An process for the reversible modification of membrane interaction of a compound is described. Modification of membrane interaction can be used to facilitate delivery of molecules to cells in vitro and in vivo. The described modifiers, which are used to reversibly inactivate the membrane active compounds, can also be utilized as cross-linkers or to reverse the charge of a molecule.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 18. Document ID: US 20030219859 A1

L4: Entry 18 of 79

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219859

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030219859 A1

TITLE: Transport proteins and their uses

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Surrey		GB	
Elliott, Gillian Daphne	Surrey		GB	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 514/12, 530/350, 536/23.5

ABSTRACT:

The present invention relates to transport proteins, in particular VP22 and homologues thereof, and to methods of delivering these proteins and any associated molecules to a target population of cells. This transport protein has applications in gene therapy and methods of targeting agents to cells where targeting at high efficiency is required.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMBO	Draw Des
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☐ 19. Document ID: US 20030219378 A1

L4: Entry 19 of 79

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219378
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030219378 A1

TITLE: Membrane-permeant peptide complexes for medical imaging, diagnostics, and pharmaceutical therapy

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Piwnica-Worms, David	Ladue	MO	US	

US-CL-CURRENT: 424/1.69; 424/188.1, 424/9.34, 424/9.6, 530/350

ABSTRACT:

Methods and compositions for medical imaging, evaluating intracellular processes and components, radiotherapy of intracellular targets, and drug delivery by the use of novel cell membrane-permeant peptide conjugate coordination and covalent complexes having target cell specificity are provided. Kits for conjugating radionuclides and other metals to peptide coordination complexes are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMBO	Draw Des
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☐ 20. Document ID: US 20030190324 A1

L4: Entry 20 of 79

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030190324
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030190324 A1

TITLE: Immunologically significant herpes simplex virus antigens and methods for using same

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koelle, David M.	Seattle	WA	US	
Hosken, Nancy A.	Seattle	WA	US	
Posavad, Christine M.	Seattle	WA	US	
Chen, Hongbo	Shoreline	WA	US	
McGowan, Patrick	Seattle	WA	US	

US-CL-CURRENT: 424/186.1; 435/235.1, 435/320.1, 435/325, 435/5, 435/69.3, 530/350, 536/23.72

ABSTRACT:

The invention provides HSV antigens that are useful for the prevention and treatment of HSV infection. Disclosed herein are epitopes confirmed to be recognized by T-cells derived from herpetic lesions. T-cells having specificity for antigens of the invention have demonstrated cytotoxic activity against cells loaded with virally-encoded peptide epitopes, and in many cases, against cells infected with HSV. The identification of immunogenic antigens responsible for T-cell specificity provides improved anti-viral therapeutic and prophylactic strategies. Compositions containing antigens or polynucleotides encoding antigens of the invention provide effectively targeted vaccines for prevention and treatment of HSV infection.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 21. Document ID: US 20030175807 A1

L4: Entry 21 of 79

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175807
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030175807 A1

TITLE: Chimeric GFP-aequorin as bioluminescent Ca²⁺ at the single cell level

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baubet, Valerie	Kansas City	MO	US	
Le Mouellic, Herve	Paris		FR	

US-CL-CURRENT: 435/7.1; 530/350, 536/23.2

ABSTRACT:

A modified bioluminescent system comprising a fluorescent molecule covalently linked with a photoprotein, wherein said link between the two proteins has the function to stabilize the modified bioluminescent system and allowing the transfer of the energy by Chemiluminescence Resonance Energy Transfer (CRET).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Des
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☐ 22. Document ID: US 20030170826 A1

L4: Entry 22 of 79

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170826

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170826 A1

TITLE: Peptides for facilitating composite receptor expression and translocation of macromolecules

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rabinovich, Peter	Madison	CT	US	
Bray-Ward, Patricia	Madison	CT	US	
Ward, David C.	Madison	CT	US	

US-CL-CURRENT: 435/69.7; 435/320.1, 435/325, 435/7.5, 530/350, 536/23.5

ABSTRACT:

The invention relates to compositions and methods for expressing a composite receptor on the cell surface. The composite receptor can be integrated into a cell membrane via a fusion peptide which includes a cell penetrating domain linked to a transmembrane domain. In a preferred embodiment, the composite receptor further comprises a ligand binding domain. In yet another embodiment the invention relates to compositions and methods for translocating a nucleic acid or other molecule across the cell membrane into the cell. In a preferred embodiment, the nucleic acid or other molecule is linked to a fusion peptide comprising an adapter domain which is linked to a cell penetrating domain.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Des
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☐ 23. Document ID: US 20030166160 A1

L4: Entry 23 of 79

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166160

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PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030166160 A1

TITLE: Compounds and molecular complexes comprising multiple binding regions directed to transcytotic ligands

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hawley, Stephen B.	San Diego	CA	US	
Chapin, Steven	San Diego	CA	US	
Sheridan, Philip L.	San Diego	CA	US	
Houston, L. L.	Del Mar	CA	US	
Glynn, Jacqueline M.	San Diego	CA	US	

US-CL-CURRENT: 435/69.7; 435/320.1, 435/325, 435/6, 530/350, 536/23.5

ABSTRACT:

Disclosed herein are multimeric molecular complexes and compounds that are multivalent, i.e., they have two or more targeting elements directed to a ligand that confers paracellular transporting properties and/or transcytotic properties to complexes and compounds to which it is bound. The complexes and compounds have properties that are different from the properties of monomers, complexes and compounds having only one targeting element directed to a paracellular and/or transcytotic ligand. The complexes and compounds of the invention undergo endocytosis, transcytosis and exocytosis; following endocytosis, the complexes or compounds may be transported into the cytosol or an organelle of a cell. In polarized cells, transcytosis can proceed in a "forward" or "reverse" direction. Reverse transcytosis is used for the non-invasive delivery of biologically active agents from the lumen of, e.g., the gastrointestinal tract or the airways of lungs, to the circulatory system. The complexes and compounds are incorporated in various compositions and medical devices suitable for medicinal or veterinary use.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMBC	Draw Des
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☐ 24. Document ID: US 20030165945 A1

L4: Entry 24 of 79

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030165945
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030165945 A1

TITLE: Human Pellino polypeptides

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge Island	WA	US	
Cosman, David J.	Bainbridge Island	WA	US	
Li, Xiaoxia	Solon	OH	US	

US-CL-CURRENT: 435/6; 435/320.1, 435/325, 435/69.1, 435/7.1, 530/350, 536/23.5

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 25. Document ID: US 20030119771 A1

L4: Entry 25 of 79

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119771

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030119771 A1

TITLE: Modulators of bone homeostasis identified in a high-throughput screen

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rompaey, Luc Van	Keerbergen		BE	
Van Es, Helmuth Hendrikus Gerardus	Haarlem		NL	
Tomme, Peter Herwig Maria	Gent		BE	
Klaassen, Hubertus Johannes Matheus	Herent		BE	

US-CL-CURRENT: 514/44; 435/226, 435/320.1, 435/366, 435/6, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The invention relates to the field of molecular genetics and medicine. In particular, the present invention relates to the field of functional genomics, i.e., to a method for the identification of genes that function in regulating bone homeostasis, such as the induction of osteogenesis.

In particular, the present invention relates to polynucleotides and the encoded polypeptides that are identified in a high-throughput screen designed to detect modulation of bone alkaline phosphatase activity. Moreover, the present invention relates to vectors, host cells, antibodies and diagnostic methods for detecting diseases involving the discovered polynucleotides, and therapeutic methods for treating such diseases. The invention further relates to methods and means for drug compound screens designed to develop new therapeutic strategies.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 26. Document ID: US 20030118611 A1

L4: Entry 26 of 79

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118611
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030118611 A1

TITLE: Immunological herpes simplex virus antigens and methods for use thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Koelle, David M.	Seattle	WA	US	
Corey, Lawrence	Seattle	WA	US	

US-CL-CURRENT: 424/231.1; 424/186.1, 424/192.1, 424/199.1, 435/235.1, 435/320.1,
435/69.1, 435/69.7, 530/350, 536/23.72

ABSTRACT:

The invention provides HSV antigens that are useful for the prevention and treatment of HSV infection. Disclosed herein are antigens and/or their constituent epitopes confirmed to be recognized by T-cells derived from herpetic lesions or from uterine cervix. T-cells having specificity for antigens of the invention have demonstrated cytotoxic activity against cells loaded with virally-encoded peptide epitopes, and in many cases, against cells infected with HSV. The identification of immunogenic antigens responsible for T-cell specificity provides improved anti-viral therapeutic and prophylactic strategies. Compositions containing antigens or polynucleotides encoding antigens of the invention provide effectively targeted vaccines for prevention and treatment of HSV infection.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Draw. Des.
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☐ 27. Document ID: US 20030118600 A1

L4: Entry 27 of 79

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118600
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030118600 A1

TITLE: Transfer compounds, production and use thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gerdes, Johannes	Feldhorst		DE	
Scholzen, Thomas	Neritz		DE	
Wohlenberg, Claudia	Hamburg		DE	

US-CL-CURRENT: 424/185.1; 435/320.1, 435/325, 435/69.3, 514/44, 530/350, 536/23.2

ABSTRACT:

The invention relates to the use of a carboxy-terminal fragment of the Ki-67 protein or of an active part, fragment or homologue thereof as a compound that can be used

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

for intracellular transfer and for the introduction in and the release by the cells. The invention further relates to transfer compounds that contain the above-mentioned Ki-67 protein and to the vectors encoding the same. The invention also relates to corresponding pharmaceutical compositions and to the use of the transfer protein as an excipient or active agent in the treatment of diseases.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMMC	Draw. Des.
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☐ 28. Document ID: US 20030105277 A1

L4: Entry 28 of 79

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105277

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030105277 A1

TITLE: Compositions and therapeutic methods for viral infection

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Morham, Scott	Salt Lake City	UT	US	
Zavitz, Kenton	Salt Lake City	UT	US	
Hobden, Adrian	Salt Lake City	UT	US	

US-CL-CURRENT: 530/300; 424/186.1, 530/350

ABSTRACT:

Methods for inhibiting viral propagation and treating viral infection are provided which include administering to cells infected with viruses a compound capable of inhibiting viral budding from the infected host cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMMC	Draw. Des.
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☐ 29. Document ID: US 20030066095 A1

L4: Entry 29 of 79

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030066095

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030066095 A1

TITLE: Chimeric GFP-aequorin as bioluminescent Ca++ reporters at the single cell level

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baubet, Valerie	Paris		FR	

LeMouellic, Herve Paris FR
Brulet, Philippe Paris FR

US-CL-CURRENT: 800/3; 424/9.6, 435/4, 530/350, 536/23.5

ABSTRACT:

A modified bioluminescent system comprising a fluorescent molecule covalently linked with a photoprotein, wherein said link between the two proteins has the function to stabilize the modified bioluminescent system and allowing the transfer of the energy by Chemiluminescence Resonance Energy Transfer (CRET).

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 30. Document ID: US 20030055219 A1

L4: Entry 30 of 79

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055219

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030055219 A1

TITLE: Protein-protein interactions

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cimbora, Daniel M.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 530/350; 435/7.1, 530/388.1

ABSTRACT:

The present invention relates to the discovery of novel protein-protein interactions that are involved in mammalian physiological pathways, including physiological disorders or diseases. Examples of physiological disorders and diseases include non-insulin dependent diabetes mellitus (NIDDM), neurodegenerative disorders, such as Alzheimer's Disease (AD), and the like. Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of physiological generative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 31. Document ID: US 20030054409 A1

L4: Entry 31 of 79

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054409
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054409 A1

TITLE: Novel complex-forming proteins

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jerome, Valerie	Coelbe		DE	
Sedlacek, Hans-Harald	Marburg		DE	
Mueller, Rolf	Marburg		DE	

US-CL-CURRENT: 435/7.1; 435/183, 435/320.1, 435/325, 435/69.5, 435/69.7, 530/350, 530/351

ABSTRACT:

The invention relates to a complex of specifically complex-forming proteins which are not naturally occurring, comprising the following components: a) at least one ligand specific for a target structure, b) at least one protein comprising a mutated dimerization domain, the mutated dimerization domain having been derived by mutation of a naturally occurring dimerization domain, it being possible for this mutated dimerization domain to interact specifically with component c) and the component b) being connected covalently to the component a), c) at least one protein comprising a mutated dimerization domain, the mutated dimerization domain having been derived by mutation of a naturally occurring dimerization domain, it being possible for this mutated dimerization domain to interact specifically with component b) and the component c) is linked covalently to the component d), and d) at least one effector. In addition, the invention relates to the use and preparation of these complexes, and to nucleic acid constructs coding for the proteins mentioned and use thereof.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw. Des.
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☐ 32. Document ID: US 20030054000 A1

L4: Entry 32 of 79

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054000
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030054000 A1

TITLE: Anti-pathogen system and methods of use thereof

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dowdy, Steven F.	Clayton	MO	US	

US-CL-CURRENT: 424/94.63; 435/226, 530/327, 530/350, 536/23.4, 536/24.33

ABSTRACT:

<http://westbrs.9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

The present invention provides an anti-pathogen system comprising one or more fusion proteins that includes a transduction domain and a cytotoxic domain. The cytotoxic domain is specifically activated by a pathogen infection. The anti-pathogen system effectively kills or injures cells infected by one or a combination of different pathogens. Further provided are protein transduction domains that provide enhanced transduction efficiency.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 33. Document ID: US 20030044427 A1

L4: Entry 33 of 79

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044427

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044427 A1

TITLE: Compositions and methods for treating Papillomavirus-infected cells

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Howley, Peter M.	Wellesley	MA	US	
Benson, John	Brookline	MA	US	
Kasukawa, Hiroaki	Princeton	NJ	US	

US-CL-CURRENT: 424/204.1; 514/12, 530/321, 530/325, 530/326, 530/350, 530/388.4, 536/23.74

ABSTRACT:

By virtue of the present invention, there is provided methods and compositions for interfering with the proliferation of cells infected and/or transformed by papillomaviruses. The processes and compositions of this invention may be used to treat any mammal, including humans. According to this invention, mammals are treated by the pharmaceutically acceptable administration of an E2 peptidomimetic to reduce the symptoms of the specific papillomavirus-associated disease, or to prevent their recurrence.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 34. Document ID: US 20030036163 A1

L4: Entry 34 of 79

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036163

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036163 A1

TITLE: Novel PN9826 nucleic acids and use thereof

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wettstein, Daniel Albert	Salt Lake City	UT	US	
Mauck, Kimberly A.	Sandy	UT	US	

US-CL-CURRENT: 435/69.1; 435/183, 435/320.1, 435/325, 530/350, 536/23.2

ABSTRACT:

Novel PN9826 protein and nucleic acids encoding PN9826 are provided. PN9826-containing protein complexes formed by PN9826 and a PN9826-interacting protein (e.g., LTBP1) are also provided. LTBP1 and PN9826 may be involved in common biological processes such as angiogenesis, metastasis, and cell growth and adhesion. Thus, the protein complexes as well as PN9826 can be used in screening assays to select modulators of PN9826 and the protein complexes formed by PN9826 and LTBP1. The identified modulators can be useful in modulating the functions and activities of PN9826 and protein complexes containing PN9826.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NWOC	Draw Des
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☐ 35. Document ID: US 20030032592 A1

L4: Entry 35 of 79

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030032592

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030032592 A1

TITLE: Protein-protein interactions

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cimbora, Daniel M.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 514/12; 435/7.1, 530/350, 530/388.1

ABSTRACT:

The present invention relates to the discovery of novel protein-protein interactions that are involved in mammalian physiological pathways, including physiological disorders or diseases. Examples of physiological disorders and diseases include non-insulin dependent diabetes mellitus (NIDDM), neurodegenerative disorders, such as Alzheimer's Disease (AD), and the like. Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of physiological generative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

☐ 36. Document ID: US 20030017174 A1

L4: Entry 36 of 79

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017174

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017174 A1

TITLE: HERPES SIMPLEX VIRUS VP22 VACCINES AND METHODS OF USE

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BURKE, RAE LYNN	SAN FRANCISCO	CA	US	
TIGGES, MICHAEL A.	OAKLAND	CA	US	

US-CL-CURRENT: 424/231.1; 424/204.1, 530/300, 530/350, 530/826

ABSTRACT:

Vaccines containing herpes simplex virus (HSV) VP22 polypeptides capable of eliciting a cellular immune response and methods for treating and preventing HSV infections using the vaccines are disclosed. The vaccines can include additional HSV polypeptides, such as HSV glycoproteins. Also disclosed are methods of DNA immunization.

☐ 37. Document ID: US 20020177692 A1

L4: Entry 37 of 79

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177692

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177692 A1

TITLE: BCL-XL-interacting protein and use thereof

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bartel, Paul	Salt Lake City	UT	US	

US-CL-CURRENT: 530/350; 435/184, 435/287.2, 435/320.1, 435/325, 435/69.7

ABSTRACT:

Protein complexes are provided comprising BCL-XL and TCTP. The protein complexes are useful in screening assays for identifying compounds effective in modulating the

protein complexes and in treating and/or preventing diseases and disorders associated with BCL-XL and TCTP. In addition, methods for detecting the protein complexes and modulating the functions and activities of the protein complexes or interacting members thereof are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 38. Document ID: US 20020169283 A1

L4: Entry 38 of 79

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169283
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020169283 A1

TITLE: Clasp-7 transmembrane protein

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Garman, Jonathan David	San Jose	CA	US	
Candia, Albert F. III	Menlo Park	CA	US	

US-CL-CURRENT: 530/350; 435/320.1, 435/325, 435/69.1, 536/23.5

ABSTRACT:

The present invention relates to a cell surface molecule, designated cadherin-like asymmetry protein-7 ("CLASP-7"). In particular, it relates to CLASP-7 polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-7 function.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 39. Document ID: US 20020168683 A1

L4: Entry 39 of 79

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168683
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020168683 A1

TITLE: Human pellino polypeptides

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bird, Timothy A.	Bainbridge Island	WA	US	

US-CL-CURRENT: 435/7.1; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.5

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 40. Document ID: US 20020165352 A1

L4: Entry 40 of 79

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020165352 A1

TITLE: Protein-protein interactions

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cimbora, Daniel M.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 530/350

ABSTRACT:

The present invention relates to the discovery of novel protein-protein interactions that are involved in mammalian physiological pathways, including physiological disorders or diseases. Examples of physiological disorders and diseases include non-insulin dependent diabetes mellitus (NIDDM), neurodegenerative disorders, such as Alzheimer's Disease (AD), and the like. Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of physiological generative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 41. Document ID: US 20020164666 A1

L4: Entry 41 of 79

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020164666

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020164666 A1

TITLE: Protein-protein interactions

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cimbora, Daniel M.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	

US-CL-CURRENT: 435/7.23; 435/183, 530/350, 530/388.1

ABSTRACT:

The present invention relates to the discovery of novel protein-protein interactions that are involved in mammalian physiological pathways, including physiological disorders or diseases. Examples of physiological disorders and diseases include non-insulin dependent diabetes mellitus (NIDDM), neurodegenerative disorders, such as Alzheimer's Disease (AD), and the like. Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of physiological generative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMC	Draw. Des.
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☐ 42. Document ID: US 20020147306 A1

L4: Entry 42 of 79

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020147306
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020147306 A1

TITLE: Peptides that modulate the interaction of B class ephrins and PDZ domains

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lin, Danny	Scarborough		CA	
Pawson, Anthony	Toronto		CA	
Gish, Gerald	East York		CA	

US-CL-CURRENT: 530/350; 530/324

ABSTRACT:

The invention relates to complexes comprising a B class ephrin and a PDZ domain containing protein; peptides that interfere with the interaction of a B class ephrin

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

with a PDZ domain binding site, and a PDZ domain containing protein; and, uses of the peptides and complexes. Methods for modulating the interaction of a B class ephrin and a PDZ domain containing protein, and methods for evaluating compounds for their ability to modulate the interaction are also described.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 43. Document ID: US 20020115607 A1

L4: Entry 43 of 79

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115607

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115607 A1

TITLE: Protein-protein interactions in neurodegenerative diseases

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roch, Jean-Marc	Salt Lake City	UT	US	
Bartel, Paul L.	Salt Lake City	UT	US	
Heichman, Karen	Salt Lake City	UT	US	

US-CL-CURRENT: 514/12; 424/146.1, 435/194, 435/226, 530/350

ABSTRACT:

The present invention relates to the discovery of protein-protein interactions that are involved in the pathogenesis of neurodegenerative disorders, including Alzheimer's disease (AD). Thus, the present invention is directed to complexes of these proteins and/or their fragments, antibodies to the complexes, diagnosis of neurodegenerative disorders (including diagnosis of a predisposition to and diagnosis of the existence of the disorder), drug screening for agents which modulate the interaction of proteins described herein, and identification of additional proteins in the pathway common to the proteins described herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Des.
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☐ 44. Document ID: US 20020106378 A1

L4: Entry 44 of 79

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106378

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020106378 A1

TITLE: Materials and methods for intracellular transport and their uses

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Oxted		GB	
Elliott, Gillian Daphne	Oxted		GB	

US-CL-CURRENT: 424/186.1; 530/350

ABSTRACT:

Coupled polypeptides and fusion polypeptides for intracellular transport and their preparation and use, include (i) an aminoacid sequence with the transport function of herpesviral VP22 protein (or a homologue, e.g. from VZV, BHV or MDV) and (ii) another protein sequence selected from (a) proteins for cell cycle control; (b) suicide proteins; (c) antigenic sequences or antigenic proteins from microbial and viral antigens and tumour antigens; (d) immunomodulating proteins; and (e) therapeutic proteins. The coupled proteins can be used for intracellular delivery of protein sequences (ii), to exert the corresponding effector function in the target cell, and the fusion polypeptides can be expressed from corresponding polynucleotides, vectors and host cells.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 45. Document ID: US 20020086361 A1

L4: Entry 45 of 79

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086361

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020086361 A1

TITLE: Modulators of antiestrogen pharmacology

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Montano, Monica	Shaker Heights	OH	US	
Sutton, Amelia	Cleveland Heights	OH	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/456, 435/458, 530/350, 536/23.5

ABSTRACT:

A protein, designated ERCoA3 is provided. The ERCoA3 protein interacts with the estrogen receptor and the progesterone receptor and causes activation of these receptors is provided. Also provided are polynucleotides which encode ERCoA3 or block translation of the mRNA which encodes ERCoA3. Antibodies that bind to one or more epitopes in the human ERCoA3 protein are provided. The present invention also relates to methods of inhibiting or reducing tamoxifen or estrogen induced proliferation of cancer cells, particularly breast cancer cells, endometrial cancer cells and uterine cancer cells. The method comprises reducing the activity or levels of ERCoA3 in such.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 46. Document ID: US 20020068302 A1

L4: Entry 46 of 79

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068302
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020068302 A1

TITLE: Clasp-4 transmembrane protein

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Garman, Jonathan D.	San Jose	CA	US	
Candia, Albert F. III	Menlo Park	CA	US	

US-CL-CURRENT: 435/7.1; 530/350, 536/23.1

ABSTRACT:

The present invention relates to a cell surface molecule, designated cadherin-like asymmetry protein-4 ("CLASP-4"). In particular, it relates to CLASP-4 polynucleotides, polypeptides, fusion proteins, and antibodies. The invention also relates to methods of modulating an immune response by interfering with CLASP-4 function.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMO	Draw Des
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☐ 47. Document ID: US 20020039765 A1

L4: Entry 47 of 79

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020039765
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020039765 A1

TITLE: Transport proteins and their uses

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Hare, Peter Francis Joseph	Surrey		GB	
Elliott, Gillian Daphne	Surrey		GB	

US-CL-CURRENT: 435/69.7; 435/320.1, 435/325, 435/471, 435/472, 435/69.1, 530/350, 536/23.5

ABSTRACT:

The present invention relates to transport proteins, in particular VP22 and

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

homologues thereof, and to methods of delivering these proteins and any associated molecules to a target population of cells. This transport protein has applications in gene therapy and methods of targeting agents to cells where targeting at high efficiency is required.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 48. Document ID: US 20020032154 A1

L4: Entry 48 of 79

File: PGPB

Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032154

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020032154 A1

TITLE: Interferon-suppressing placental lactogen peptides

PUBLICATION-DATE: March 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peyman, John A.	New Haven	CT	US	

US-CL-CURRENT: 514/12; 435/184, 530/350

ABSTRACT:

Interferon-Suppressing Placental Lactogen Peptides (ISPLP) are disclosed which block actions of the human cytokine interferon-gamma. In addition, methods are disclosed for the treatment with ISPLP of certain disorders associated with increased expression of interferon-gamma-stimulated major histocompatibility complex antigens, such as autoimmune diseases, inflammatory diseases, and transplant rejection.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Des.
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☐ 49. Document ID: US 20020001805 A1

L4: Entry 49 of 79

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020001805

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020001805 A1

TITLE: Immunogenic ovarian cancer genes

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roden, Richard Bruce	Washington	DC	US	
Naora, Honami	Baltimore	MD	US	

US-CL-CURRENT: 435/6; 435/325, 435/69.1, 435/7.23, 530/350, 536/23.5

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

ABSTRACT:

The present invention is based on the discovery of autoantibodies in cancer patients specific for a number of antigens that are normally intracellular, including homeobox protein HOXA7, homeobox protein HOXB7, ADP-ribosylation factor 1 (Arf-1), ATP-dependent iron transporter ABC-7, and a novel protein encoded by a EcoRI/XhoI fragment of bacteriophage .lambda. clone 44B.1 deposited under ATCC accession No. [N]. The presence of these autoantibodies can be correlated with neoplastic processes in patients, and therefore detection of autoantibodies (or detection of expression of the antigens by other means) can be used as a component of a cancer screening program. The present invention provides such screening assays. In addition, the studies leading to the identification of the predictive autoantigens have also succeeded in identifying a hitherto unknown antigen that is disclosed herein.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 50. Document ID: US 20010044417 A1

L4: Entry 50 of 79

File: PGPB

Nov 22, 2001

PGPUB-DOCUMENT-NUMBER: 20010044417

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010044417 A1

TITLE: Compound containing a labile disulfide bond

PUBLICATION-DATE: November 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wolff, Jon A.	Madison	WI	US	
Monahan, Sean D.	Madison	WI	US	
Budker, Vladimir G.	Middleton	WI	US	
Slattum, Paul M.	Madison	WI	US	
Rozema, David B.	Madison	WI	US	

US-CL-CURRENT: 514/44; 514/2, 530/350, 536/23.1

ABSTRACT:

A labile disulfide-containing compound under physiological conditions containing a labile disulfide bond and a transduction signal.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Des
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☐ 51. Document ID: US 6787326 B1

L4: Entry 51 of 79

File: USPT

Sep 7, 2004

US-PAT-NO: 6787326

DOCUMENT-IDENTIFIER: US 6787326 B1

TITLE: Interaction between the VHL tumor suppressor and hypoxia inducible factor, and

<http://westbrs.9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

assay methods relating thereto

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ratcliffe; Peter John	Oxford			GB
Maxwell; Patrick Henry	Oxford			GB
Pugh; Christopher William	Oxford			GB

US-CL-CURRENT: 435/14; 435/6, 435/7.1, 435/8, 530/350

ABSTRACT:

The invention relates to the finding that the VHL tumour suppressor protein regulates hypoxia inducible factor .alpha. subunits, by targeting HIF .alpha. for destruction in normoxic, but not hypoxic cells. The invention provides assays for modulators of this interaction, and peptides based upon HIF .alpha. subunit sequence which may modulate this interaction.

16 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 52. Document ID: US 6780970 B2

L4: Entry 52 of 79

File: USPT

Aug 24, 2004

US-PAT-NO: 6780970

DOCUMENT-IDENTIFIER: US 6780970 B2

TITLE: Cell-permeable peptide inhibitors of the JNK signal transduction pathway

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bonny; Christophe	Morges			CH

US-CL-CURRENT: 530/324; 530/300, 530/325, 530/326, 530/332

ABSTRACT:

The invention provides cell-permeable peptides that bind to JNK proteins and inhibit JNK-mediated effects in JNK-expressing cells.

13 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 53. Document ID: US 6773920 B1

L4: Entry 53 of 79

File: USPT

Aug 10, 2004

US-PAT-NO: 6773920

DOCUMENT-IDENTIFIER: US 6773920 B1

TITLE: Delivery of functional protein sequences by translocating polypeptides

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dalby; Brian	Carlsbad	CA		
Bennett; Robert P.	Encinitas	CA		

US-CL-CURRENT: 435/462; 435/455, 435/468, 435/471, 530/300, 530/350

ABSTRACT:

The invention provides methods for modulating a cellular process by contacting a cell in culture with a cell process-modifying molecule attached to a translocating polypeptide. For example, in one embodiment, a cell in culture is transfected with a target gene by contacting the cell in culture with a polynucleotide (that contains the target gene) attached to a translocating polypeptide. In another embodiment, expression of a target gene product in a cell in culture that contains a target gene under control of one or more regulatory elements is modulated by contacting the cell in culture with one or more regulatory agents attached to a translocating polypeptide. The one or more regulatory agents are translocated into the cell in culture and interact therein with the one or more regulatory elements to modulate expression of the target gene product by the cell.

37 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Draw Desc
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☐ 54. Document ID: US 6740524 B1

L4: Entry 54 of 79

File: USPT

May 25, 2004

US-PAT-NO: 6740524

DOCUMENT-IDENTIFIER: US 6740524 B1

TITLE: Nucleic acid transfer phage

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akuta; Teruo	Kumamoto			JP
Yokoi; Haruhiko	Tokyo			JP
Okuyama; Hajime	Hyogo			JP

Takeda; Katsuo	late of Tokyo	JP
Hasegawa; Mamoru	Ibaraki	JP
Nakanishi; Mahito	Osaka	JP

US-CL-CURRENT: 435/456; 435/235.1, 435/252.3, 435/252.33, 435/320.1, 435/69.7,
435/975, 530/350, 536/23.4

ABSTRACT:

The present invention provides a novel phage expressing in its head a bi-functional protein that has nuclear translocation and cell adhesion activities. The phage is used to package a foreign substance such as a gene. As a bi-functional protein, TAT protein of HIV can be used. The phage is useful in gene therapy.

18 Claims, 8 Drawing figures
Exemplary Claim Number: 1,15
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K000C	Draw Des
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☐ 55. Document ID: US 6734167 B2

L4: Entry 55 of 79

File: USPT

May 11, 2004

US-PAT-NO: 6734167

DOCUMENT-IDENTIFIER: US 6734167 B2

TITLE: Uses of transport proteins

DATE-ISSUED: May 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Surry			GB
Normand; Nadia Michelle	Boulogne-Billancourt			FR
Brewis; Neil Douglas	Surry			GB
Phelan; Anne	Kent			GB

US-CL-CURRENT: 514/12; 424/204.1, 424/231.1, 530/350, 536/23.1, 536/23.5

ABSTRACT:

This invention relates to uses of transport-active proteins, particularly of proteins and fusion polypeptides with the function of VP22, for control of the cell cycle, particularly in the reduction of the proliferating activity of proliferating cells.

11 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K000C	Draw Des
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☐ 56. Document ID: US 6703487 B2

US-PAT-NO: 6703487

DOCUMENT-IDENTIFIER: US 6703487 B2

TITLE: Human pellino polypeptides

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bird; Timothy A.	Seattle	WA		
Cosman; David J.	Seattle	WA		

US-CL-CURRENT: 530/350; 435/252.3, 435/254.11, 435/254.2, 435/325, 435/69.1, 530/324, 530/351, 536/23.5

ABSTRACT:

There are disclosed novel polypeptides referred to as Pellino polypeptides, as well as fragments thereof, including immunogenic peptides. DNAs encoding such polypeptides as well as methods of using such DNAs and polypeptides are also disclosed.

9 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMMC	Draw Des
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☐ 57. Document ID: US 6683048 B1

L4: Entry 57 of 79

File: USPT

Jan 27, 2004

US-PAT-NO: 6683048

DOCUMENT-IDENTIFIER: US 6683048 B1

TITLE: Compounds and methods for stimulating gene expression and cellular differentiation

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blaschuk; Orest W.	Westmount			CA
Gour; Barbara J.	Montreal			CA

US-CL-CURRENT: 514/2; 514/11, 514/12, 514/13, 514/14, 514/15, 514/16, 514/17, 514/9, 530/300, 530/326, 530/328, 530/329, 530/330

ABSTRACT:

Modulating agents for inhibiting an interaction between .alpha.-catenin and .beta.-catenin are provided. The modulating agents comprise one or more of: (a) a .beta.-catenin HAV motif; (b) a peptide analogue or mimetic of a .beta.-catenin HAV motif; or (c) an antibody or antigen-binding fragment thereof that specifically binds to a .beta.-catenin HAV motif. Methods for using such modulating agents for inhibiting

cadherin-mediated cell adhesion in a variety of contexts are also provided.

16 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 58. Document ID: US 6677116 B1

L4: Entry 58 of 79

File: USPT

Jan 13, 2004

US-PAT-NO: 6677116
DOCUMENT-IDENTIFIER: US 6677116 B1

TITLE: Methods for treating cancer by modulating .beta.-catenin mediated gene expression

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blaschuk; Orest W.	Westmount			CA
Byers; Stephen	Washington	DC		
Gour; Barbara J.	Kemptonville			CA

US-CL-CURRENT: 435/6; 514/14, 514/2, 514/9, 530/300, 536/22.1

ABSTRACT:

Modulating agents for inhibiting .beta.-catenin mediated gene expression are provided. The modulating agents comprise one or more of: (1) the peptide sequence LXXLL (SEQ ID NO:1); or (2) a peptide analogue or peptidomimetic thereof. Methods for using such modulating agents for modulating .beta.-catenin mediated gene expression and cellular differentiation in a variety of contexts (e.g., for modulating hair growth or treating cancer or Alzheimer's disease) are provided.

13 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 59. Document ID: US 6673354 B2

L4: Entry 59 of 79

File: USPT

Jan 6, 2004

US-PAT-NO: 6673354
DOCUMENT-IDENTIFIER: US 6673354 B2

TITLE: Compositions and methods for treating papillomavirus-infected cells

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howley; Peter M.	Wellesley	MA		
Benson; John	Brookline	MA		
Kasukawa; Hiroaki	Princeton	NJ		

US-CL-CURRENT: 424/204.1; 514/12, 530/321, 530/325, 530/326, 530/350, 530/388.4, 536/23.74

ABSTRACT:

By virtue of the present invention, there is provided methods and compositions for interfering with the proliferation of cells infected and/or transformed by papillomaviruses. The processes and compositions of this invention may be used to treat any mammal, including humans. According to this invention, mammals are treated by the pharmaceutically acceptable administration of an E2 peptidomimetic to reduce the symptoms of the specific papillomavirus-associated disease, or to prevent their recurrence.

17 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw Des
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☐ 60. Document ID: US 6669951 B2

L4: Entry 60 of 79

File: USPT

Dec 30, 2003

US-PAT-NO: 6669951

DOCUMENT-IDENTIFIER: US 6669951 B2

TITLE: Compositions and methods for enhancing drug delivery across and into epithelial tissues

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rothbard; Jonathan B.	Cupertino	CA		
Wender; Paul A.	Menlo Park	CA		
McGrane; P. Leo	Mountain View	CA		
Sista; Lalitha V. S.	Sunnyvale	CA		
Kirschberg; Thorsten A.	Mountain View	CA		

US-CL-CURRENT: 424/436; 514/11, 514/16, 514/169, 514/2, 514/634, 514/636, 530/300, 530/329, 564/236, 564/243

ABSTRACT:

This invention provides compositions and methods for enhancing delivery of drugs and other agents across epithelial tissues, including the skin, gastrointestinal tract, pulmonary epithelium, ocular tissues and the like. The compositions and methods are also useful for delivery across endothelial tissues, including the blood brain barrier. The compositions and methods employ a delivery enhancing transporter that

has sufficient guanidino or amidino sidechain moieties to enhance delivery of a compound conjugated to the reagent across one or more layers of the tissue, compared to the non-conjugated compound. The delivery-enhancing polymers include, for example, poly-arginine molecules that are preferably between about 6 and 25 residues in length.

88 Claims, 51 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw Des
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☐ 61. Document ID: US 6664040 B2

L4: Entry 61 of 79

File: USPT

Dec 16, 2003

US-PAT-NO: 6664040

DOCUMENT-IDENTIFIER: US 6664040 B2

TITLE: Compositions and methods for delivery of a molecule into a cell

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sherman; Michael P.	San Francisco	CA		
Greene; Warner C.	San Francisco	CA		
de Noronha; Carlos M.C.	San Francisco	CA		
Schubert; Ulrich	Bethesda	MA		
Henklein; Peter	Berlin			GB

US-CL-CURRENT: 435/5; 435/29, 435/325, 435/41, 530/300, 530/350, 530/395

ABSTRACT:

Provided is a composition comprising a Vpr polypeptide conjugated to a therapeutic molecule. Preferably, the Vpr comprises synthetic Vpr. The therapeutic molecule can comprise any molecule capable of being conjugated to Vpr or a fragment thereof, including a polypeptide, a polynucleotide, and/or a toxin. The invention additionally provides a method for delivering a molecule into a cell. The method comprises contacting the cell with a conjugate comprising a Vpr polypeptide conjugated to the molecule. The invention further provides a method for modulating the expression of a transgene in a cell, a method for killing a target cell population in a subject, a method for increasing the sensitivity of cells to radiation therapy, and a method for inhibiting cell proliferation.

14 Claims, 83 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw Des
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☐ 62. Document ID: US 6635258 B2

US-PAT-NO: 6635258

DOCUMENT-IDENTIFIER: US 6635258 B2

TITLE: Herpes simplex virus VP22 vaccines and methods of use

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; Rae Lyn	San Francisco	CA		
Tigges; Michael A.	Oakland	CA		

US-CL-CURRENT: 424/231.1; 424/185.1, 424/204.1, 424/229.1, 530/350

ABSTRACT:

Vaccines containing herpes simplex virus (HSV) VP22 polypeptides capable of eliciting a cellular immune response and methods for treating and preventing HSV infections using the vaccines are disclosed. The vaccines can include additional HSV polypeptides, such as HSV glycoproteins. Also disclosed are methods of DNA immunization.

24 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Des.
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☐ 63. Document ID: US 6632616 B2

L4: Entry 63 of 79

File: USPT

Oct 14, 2003

US-PAT-NO: 6632616

DOCUMENT-IDENTIFIER: US 6632616 B2

**** See image for Certificate of Correction ****

TITLE: Compounds that selectively bind to expanded polyglutamine repeat domains and methods of use thereof

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burke; James R.	Chapel Hill	NC		
Strittmatter; Warren J.	Durham	NC		
Nagai; Yoshitaka	Osaka			JP

US-CL-CURRENT: 435/7.1; 435/4, 435/6, 530/350

ABSTRACT:

Compounds that selectively bind to expanded polyglutamine repeats are disclosed. Such

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

compounds are characterized in that they bind to a first polyglutamine peptide consisting of 60 glutamine residues under conditions in which they do not bind to a second polyglutamine peptide consisting of 20 glutamine residues. Conjugates of such compounds, nucleic acids encoding the same, and methods of use thereof are also disclosed.

6 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw. Des.
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☐ 64. Document ID: US 6610820 B1

L4: Entry 64 of 79

File: USPT

Aug 26, 2003

US-PAT-NO: 6610820

DOCUMENT-IDENTIFIER: US 6610820 B1

TITLE: Cell-permeable peptide inhibitors of the JNK signal transduction pathway

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bonny; Christophe	Morges			CH

US-CL-CURRENT: 530/300; 530/324, 530/326, 530/328

ABSTRACT:

The invention provides cell-permeable peptides that bind to JNK proteins and inhibit JNK-mediated effects in JNK-expressing cells.

20 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw. Des.
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☐ 65. Document ID: US 6610542 B1

L4: Entry 65 of 79

File: USPT

Aug 26, 2003

US-PAT-NO: 6610542

DOCUMENT-IDENTIFIER: US 6610542 B1

**** See image for Certificate of Correction ****

TITLE: Efficient ex vivo expansion of cd4+ and cd8- T-cells from HIV infected subjects

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bell; David N.	Oakville			CA
Rosenthal; Kenneth Lee	Ancaster			CA

US-CL-CURRENT: 435/377; 424/93.2, 424/93.21, 435/320.1, 435/325, 435/455, 514/44, 530/350, 530/351

ABSTRACT:

Methods for the expansion of CD4, CD8, and DP T-cells from HIV infected patients are disclosed which allow the maintenance of low levels of HIV. The invention further discloses methods for the inhibition of HIV gene expression. Also disclosed are methods for the rapid and efficient screening of cells derived from HIV-infected patients to assess the suitability of various antiviral treatments. The invention further provides a means for the generation of cell banks for use in immune reconstitution and means of treating or modifying expanded cell populations prior to infusion to enhance or modulate therapeutic effectiveness.

33 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw Des
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☐ 66. Document ID: US 6593292 B1

L4: Entry 66 of 79

File: USPT

Jul 15, 2003

US-PAT-NO: 6593292

DOCUMENT-IDENTIFIER: US 6593292 B1

TITLE: Compositions and methods for enhancing drug delivery across and into epithelial tissues

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rothbard; Jonathan B.	Cupertino	CA		
Wender; Paul A.	Menlo Park	CA		
McGrane; P. Leo	Mountain View	CA		
Sista; Lalitha V. S.	Sunnyvale	CA		
Kirschberg; Thorsten A.	Mountain View	CA		

US-CL-CURRENT: 514/2; 514/11, 514/12, 514/15, 514/159, 514/16, 514/169, 514/17, 514/254.07, 514/263.31, 514/291, 514/423, 514/456, 514/458, 514/634, 514/635, 514/636, 530/300, 530/321, 530/328, 530/329, 530/330, 544/366

ABSTRACT:

This invention provides compositions and methods for enhancing delivery of drugs and other agents across epithelial tissues, including the skin, gastrointestinal tract, pulmonary epithelium, and the like. The compositions and methods are also useful for delivery across endothelial tissues, including the blood brain barrier. The compositions and methods employ a delivery enhancing transporter that has sufficient

guanidino or amidino sidechain moieties to enhance delivery of a compound conjugated to the reagent across one or more layers of the tissue, compared to the non-conjugated compound. The delivery-enhancing polymers include, for example, poly-arginine molecules that are preferably between about 6 and 25 residues in length.

134 Claims, 41 Drawing figures
Exemplary Claim Number: 61
Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	HWMC	Draw. Des.
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☐ 67. Document ID: US 6461822 B2

L4: Entry 67 of 79

File: USPT

Oct 8, 2002

US-PAT-NO: 6461822
DOCUMENT-IDENTIFIER: US 6461822 B2

TITLE: Methods of screening compounds for their ability to inhibit the production of inflammatory cytokines

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gabel; Christopher A.	Ledyard	CT		
Griffiths; Richard J.	East Lyme	CT		
Eggler; James F.	Stonington	CT		
Dombroski; Mark A.	Waterford	CT		
Geoghegan; Kieran	Mystic	CT		

US-CL-CURRENT: 435/7.2; 435/7.1, 530/350, 536/23.5, 564/305

ABSTRACT:

The present invention relates to the identification of diarylsulfonylurea binding proteins (DBPs) as therapeutic targets for agents that suppress the release of inflammatory mediators such as interleukin IL-1 and IL-1.beta..

24 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	HWMC	Draw. Des.
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☐ 68. Document ID: US 6451601 B1

L4: Entry 68 of 79

File: USPT

Sep 17, 2002

US-PAT-NO: 6451601
DOCUMENT-IDENTIFIER: US 6451601 B1

TITLE: Transiently immortalized cells for use in gene therapy

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baetge; Edward E.	St. Sulpice			CH
Wong; Shou	Verona	WI		
Dupraz; Philippe	Crissier			CH
Thorens; Bernard	Epalinges			CH

US-CL-CURRENT: 435/366; 435/377, 435/405, 530/350, 536/23.4

ABSTRACT:

The invention provides methods and compositions for expanding cells that are not abundant or are difficult to obtain in pure form in culture, are in short supply (e.g., human cells), or have brief lifetimes in culture, using fusion polypeptide. The fusion polypeptide has a first region containing a translocation carrier moiety having the function of a transport polypeptide amino acid sequence from, e.g., herpesviral VP22, HIV TAT, Antp HD, Arg repeats, or a cationic polymer, or from homologues or fragments thereof, and a second region with a polypeptide having cell immortalization activity, a polypeptide having telomerase-specific activity, or a polypeptide having telomerase gene activation activity. The resulting cells of the invention are suitable for use in cell therapy.

12 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw. Des.
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☐ 69. Document ID: US 6451579 B1

L4: Entry 69 of 79

File: USPT

Sep 17, 2002

US-PAT-NO: 6451579

DOCUMENT-IDENTIFIER: US 6451579 B1

TITLE: Regulated expression of recombinant proteins using RNA viruses

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jessee; Joel A.	Mount Airy	MD		
Ciccarone; Valentina C.	Gaithersburg	MD		

US-CL-CURRENT: 435/235.1; 424/94.5, 435/15, 435/320.1, 435/440, 435/455, 435/6, 435/69.1, 514/44, 530/350

ABSTRACT:

The present invention describes cells and constructs for a regulated viral (e.g. alphavirus) expression system, where gene expression is controlled by controlling expression of replicases or nonstructural proteins and/or controlling the amount of such proteins introduced in a cell, which in turn regulates RNA replication and

subsequently gene expression. Particularly, this system takes advantage of the high level expression of the alphavirus systems for recombinant protein production and allows for large scale applications without biosafety concerns.

9 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMWC	Draw Des
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☐ 70. Document ID: US 6399075 B1

L4: Entry 70 of 79

File: USPT

Jun 4, 2002

US-PAT-NO: 6399075
DOCUMENT-IDENTIFIER: US 6399075 B1

TITLE: Compositions and methods for treating Papillomavirus-infected cells

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howley; Peter M.	Wellesley	MA		
Benson; John	Brookline	MA		
Kasukawa; Hiroaki	Princeton	NJ		

US-CL-CURRENT: 424/204.1; 514/12, 530/321, 530/325, 530/326, 530/350, 530/388.4, 536/23.74

ABSTRACT:

By virtue of the present invention, there is provided methods and compositions for interfering with the proliferation of cells infected and/or transformed by papillomaviruses. The processes and compositions of this invention may be used to treat any mammal, including humans. According to this invention, mammals are treated by the pharmaceutically acceptable administration of an E2 peptidomimetic to reduce the symptoms of the specific papillomavirus-associated disease, or to prevent their recurrence.

32 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMWC	Draw Des
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☐ 71. Document ID: US 6375952 B1

L4: Entry 71 of 79

File: USPT

Apr 23, 2002

US-PAT-NO: 6375952
DOCUMENT-IDENTIFIER: US 6375952 B1

**** See image for Certificate of Correction ****

TITLE: Immunological herpes simplex virus antigens and methods for use thereof

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koelle; David M.	Seattle	WA		
Corey; Lawrence	Seattle	WA		

US-CL-CURRENT: 424/186.1; 424/192.1, 424/199.1, 424/231.1, 435/235.1, 435/252.3,
435/320.1, 435/325, 435/69.3, 435/69.7 , 530/350, 536/23.4, 536/23.7

ABSTRACT:

The invention provides HSV antigens that are useful for the prevention and treatment of HSV infection. Disclosed herein are antigens and/or their constituent epitopes confirmed to be recognized by T-cells derived from herpetic lesions or from uterine cervix. T-cells having specificity for antigens of the invention have demonstrated cytotoxic activity against cells loaded with virally-encoded peptide epitopes, and in many cases, against cells infected with HSV. The identification of immunogenic antigens responsible for T-cell specificity provides improved anti-viral therapeutic and prophylactic strategies. Compositions containing antigens or polynucleotides encoding antigens of the invention provide effectively targeted vaccines for prevention and treatment of HSV infection.

39 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 72. Document ID: US 6358739 B1

L4: Entry 72 of 79

File: USPT

Mar 19, 2002

US-PAT-NO: 6358739

DOCUMENT-IDENTIFIER: US 6358739 B1

**** See image for Certificate of Correction ****

TITLE: Transiently immortalized cells

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baetge; Edward E.	St. Sulpice			CH
Wong; Shou	Lausanne			CH
Dupraz; Philippe	Crissier			CH
Thorens; Bernard	Epalinges			CH

US-CL-CURRENT: 435/377; 530/350

ABSTRACT:

The invention provides methods and compositions for expanding cells that are not

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

abundant or are difficult to obtain in pure form in culture, are in short supply (e.g., human cells), or have brief lifetimes in culture, using fusion polypeptide. The fusion polypeptide has a first region having the transport function of herpesviral VP22 protein or human immunodeficiency virus (HIV) TAT protein, and a second region with a polypeptide having cell immortalization activity, a polypeptide having telomerase-specific activity, or a polypeptide having telomerase gene activation activity. The resulting cells of the invention are suitable for use in cell therapy.

12 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMO	Draw Des
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☐ 73. Document ID: US 6316252 B1

L4: Entry 73 of 79

File: USPT

Nov 13, 2001

US-PAT-NO: 6316252

DOCUMENT-IDENTIFIER: US 6316252 B1

TITLE: Biotherapeutic delivery system

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harms; Jerome S.	Madison	WI		
Splitter; Gary A.	Brooklyn	WI		

US-CL-CURRENT: 435/320.1; 435/69.7, 530/350, 530/826, 536/23.4, 536/23.72

ABSTRACT:

Disclosed herein are fusion proteins, nucleotide sequences for creating them, and vectors containing the nucleotide sequences. The fusion proteins have a bovine herpesvirus protein linked to a biotherapeutic protein or reporter protein. They rapidly spread biotherapeutic or reporter protein throughout mammalian cells.

4 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMO	Draw Des
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☐ 74. Document ID: US 6313269 B1

L4: Entry 74 of 79

File: USPT

Nov 6, 2001

US-PAT-NO: 6313269

DOCUMENT-IDENTIFIER: US 6313269 B1

TITLE: Tumor necrosis factor related receptor, TR6

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deen; Keith C.	Glenmore	PA		
Young; Peter R.	Lawrenceville	NJ		
Marshall; Lisa A.	Wyndmoor	PA		
Roshak; Amy K.	East Norriton	PA		
Tan; Kong B.	Philadelphia	PA		
Truneh; Alemseged	West Chester	PA		

US-CL-CURRENT: 530/350; 435/69.1

ABSTRACT:

TR6 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing TR6 polypeptides and polynucleotides in the design of protocols for the treatment of chronic and acute inflammation, arthritis, septicemia, autoimmune diseases (e.g. inflammatory bowel disease, psoriasis), transplant rejection, graft vs. host disease, infection, stroke, ischemia, acute respiratory disease syndrome, restenosis, brain injury, AIDS, Bone diseases, cancer, atherosclerosis, and Alzheimers disease, among others and diagnostic assays for such conditions.

2 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
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☐ 75. Document ID: US 6251398 B1

L4: Entry 75 of 79

File: USPT

Jun 26, 2001

US-PAT-NO: 6251398

DOCUMENT-IDENTIFIER: US 6251398 B1

**** See image for Certificate of Correction ****

TITLE: Materials and methods for intracellular transport and their uses

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Oxtd			GB
Elliott; Gillian Daphne	Oxtd			GB

US-CL-CURRENT: 424/186.1; 424/192.1, 424/204.1, 424/208.1, 424/248.1, 424/263.1, 435/235.1, 435/252.3, 435/317.1, 435/325, 530/350, 530/826, 536/23.4

ABSTRACT:

Coupled polypeptides and fusion polypeptides for intracellular transport, and their preparation and use, include (i) an aminoacid sequence with the transport function of herpesviral VP22 protein (or a homologue, e.g. from VZV, BHV or MDV) and (ii) another protein sequence selected from (a) proteins for cell cycle control; (b) suicide

<http://westbrs:9000/bin/gate.exe?f=TOC&state=ofb0q.5&ref=4&dbname=PGPB,USPT,USOC...> 9/22/04

proteins; (c) antigenic sequences or antigenic proteins from microbial and viral antigens and tumor antigens; (d) immunomodulating proteins; and (e) therapeutic proteins. The coupled proteins can be used for intracellular delivery of protein sequences (ii), to exert the corresponding effector function in the target cell, and the fusion polypeptides can be expressed from corresponding polynucleotides, vectors and host cells.

19 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FWMC	Draw. Des.
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☐ 76. Document ID: US 6200577 B1

L4: Entry 76 of 79

File: USPT

Mar 13, 2001

US-PAT-NO: 6200577

DOCUMENT-IDENTIFIER: US 6200577 B1

TITLE: Anti-herpesviral agents and assays therefor

DATE-ISSUED: March 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McLauchlan; John	Glasgow			GB
McGeoch; Duncan James	Glasgow			GB
Hope; Ralph Graham	Glasgow			GB
Rixon; Helen Winton McLaren	Strathblane			GB

US-CL-CURRENT: 424/229.1; 424/204.1, 424/231.1, 435/5, 435/7.93, 435/975, 530/300, 536/23.72

ABSTRACT:

There is described an antiviral agent capable of disrupting the association of two viral structural proteins required for maturation, replication and infection of herpesviruses. The agents are based upon VP22 and disrupt the normal association of that protein with VP16 and/or gB. Suitable agents are peptides having the amino acid sequences TPRVAGFNKRVFCAAVGRLAAMHARMAAVQLW or ITTIRVTVCEGKNLLQRANE. The agents are suitable for combatting infection of herpesviruses and thus for the treatment of cold sores, genital herpes, chickenpox and shingles. An assay to test for agents able to disrupt VP22/VP16 and/or VP22/gB association is also described.

13 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FWMC	Draw. Des.
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☐ 77. Document ID: US 6184038 B1

L4: Entry 77 of 79

File: USPT

Feb 6, 2001

US-PAT-NO: 6184038

DOCUMENT-IDENTIFIER: US 6184038 B1

**** See image for Certificate of Correction ****

TITLE: Transport proteins and their uses

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Oxtd			GB
Elliott; Gillian Daphne	Oxtd			GB

US-CL-CURRENT: 435/455; 435/468, 435/471, 530/300, 530/350

ABSTRACT:

The present invention relates to transport proteins, in particular VP22 and homologues thereof, and to methods of delivering these proteins and any associated molecules to a target population of cells. This transport protein has applications in gene therapy and methods of targeting agents to cells where targeting at high efficiency is required.

8 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMMC	Draw Des
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☐ 78. Document ID: US 6086900 A

L4: Entry 78 of 79

File: USPT

Jul 11, 2000

US-PAT-NO: 6086900

DOCUMENT-IDENTIFIER: US 6086900 A

TITLE: Methods and compositions for using membrane-penetrating proteins to carry materials across cell membranes

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Draper; Rockford	Plano	TX		

US-CL-CURRENT: 424/282.1; 435/320.1, 435/357, 435/358, 435/367, 435/372.2, 435/372.3, 435/455, 514/2, 514/44, 530/350, 530/387.1, 536/23.1, 536/23.4, 536/23.5, 536/23.7

ABSTRACT:

The present invention provides methods and compositions delivery of agents into the cytoplasm of cells. Particularly, it concerns the use of membrane-penetrating toxin proteins to deliver drugs to the cytoplasm of target cells.

62 Claims, 8 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw. Des.
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☐ 79. Document ID: US 6017735 A

L4: Entry 79 of 79

File: USPT

Jan 25, 2000

US-PAT-NO: 6017735

DOCUMENT-IDENTIFIER: US 6017735 A

**** See image for Certificate of Correction ****

TITLE: Materials and methods for intracellular transport and their uses

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Hare; Peter Francis Joseph	Oxtd			GB
Elliott; Gillian Daphne	Oxtd			GB

US-CL-CURRENT: 435/69.7; 435/252.3, 435/317.1, 435/320.1, 435/325, 435/69.3, 530/350, 536/23.4, 536/23.5

ABSTRACT:

Coupled polypeptides and fusion polypeptides for intracellular transport, and their preparation and use, include (i) an aminoacid sequence with the transport function of herpesviral VP22 protein (or a homologue, e.g. from VZV, BHV or MDV) and (ii) another protein sequence selected from (a) proteins for cell cycle control; (b) suicide proteins; (c) antigenic sequences or antigenic proteins from microbial and viral antigens and tumour antigens; (d) immunomodulating proteins; and (e) therapeutic proteins. The coupled proteins can be used for intracellular delivery of protein sequences (ii), to exert the corresponding effector function in the target cell, and the fusion polypeptides can be expressed from corresponding polynucleotides. vectors and host cells.

19 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMIC	Draw. Des.
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Terms	Documents
L3 AND VP22	79

Display Format:

